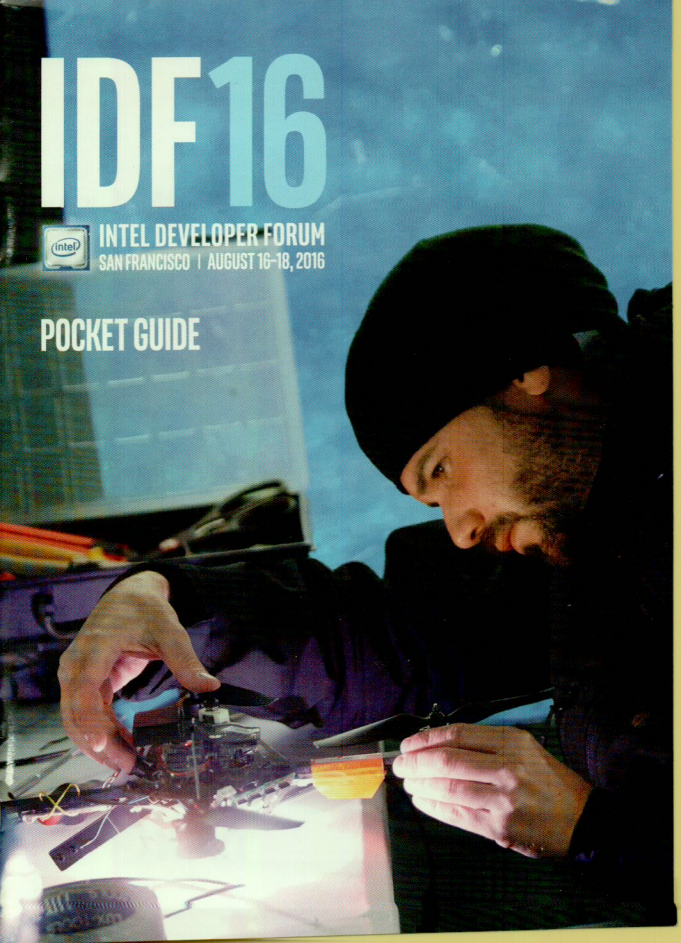
IDF16

INTEL DEVELOPER FORUM
SAN FRANCISCO | AUGUST 16–18, 2016

POCKET GUIDE



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Thank you for joining us this week for the Intel Developer Forum.

This Pocket Guide provides valuable information that will help you get the most out of your IDF experience.

For the most current Forum Experiences, including Agendas, Technical Sessions, Technology Showcase, Special Attractions, and last-minute updates, please download the IDF Mobile App.

IDF16.intel.com

Expand your professional network, connect with like-minded attendees, interact in real time, and have fun!

We are excited you are here and hope you have a great time at IDF.

Data charges may apply.

Intel Corporation
2200 Mission College Blvd., Santa Clara, CA 95054 (408) 765-8080

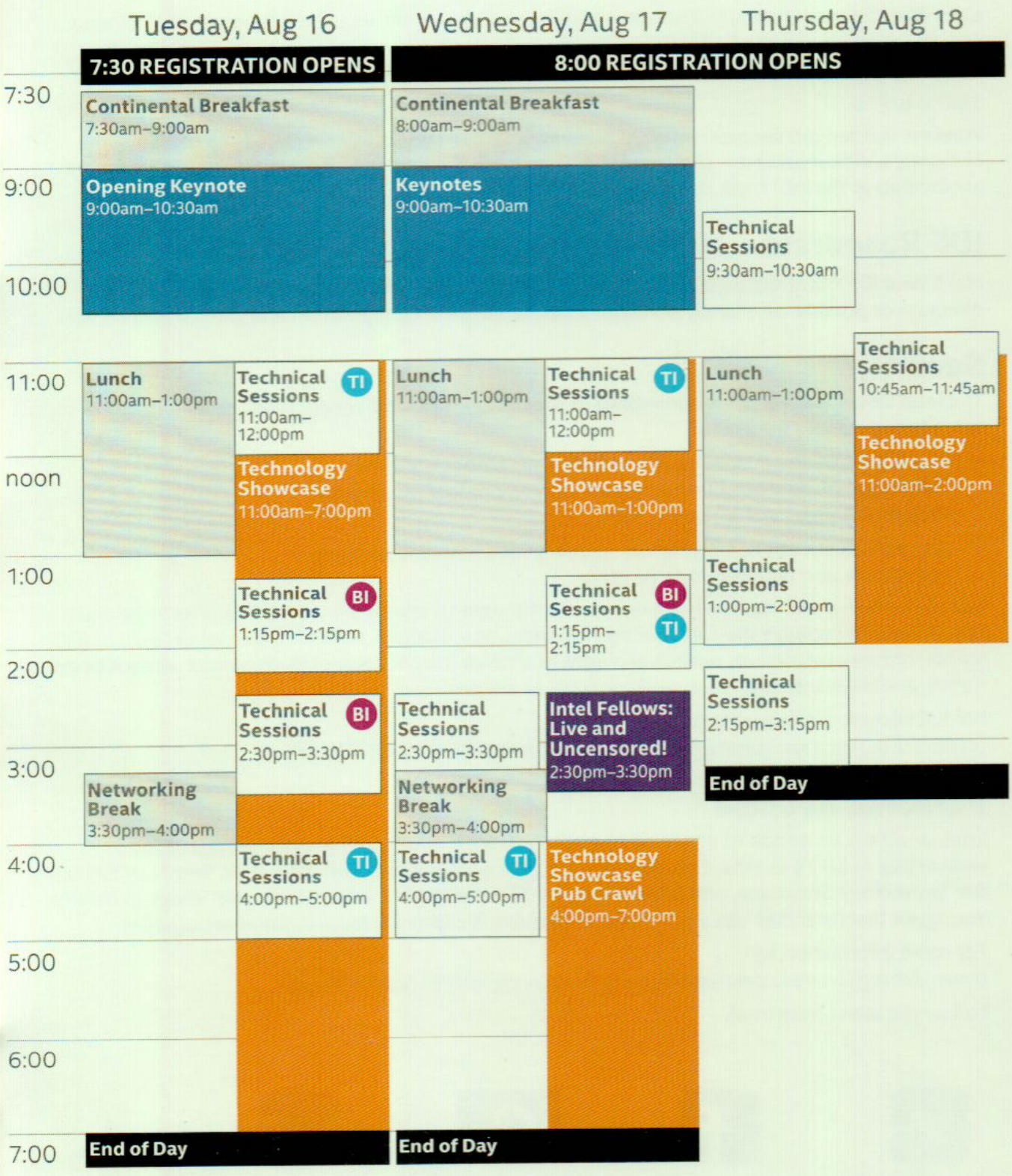
Contents

Hours of Operation

REGISTRATION AND HOUSING DESK

Tuesday, August 16: 7:30 a.m.–7:00 p.m.
Wednesday, August 17: 8:00 a.m.–7:00 p.m.
Thursday, August 18: 8:00 a.m.–2:30 p.m.

	Tuesday, Aug 16	Wednesday, Aug 17	Thursday, Aug 18
General Forum Hours	7:30 a.m.–7:00 p.m.	8:00 a.m.–7:00 p.m.	8:00 a.m.–2:30 p.m.
Meals	Continental Breakfast 7:30 a.m.–9:00 a.m. Lunch 11:00 a.m.–1:00 p.m.	Continental Breakfast 8:00 a.m.–9:00 a.m. Lunch 11:00 a.m.–1:00 p.m.	Lunch 11:00 a.m.–1:00 p.m.
Alumni Lounge	7:30 a.m.–5:00 p.m.	8:00 a.m.–5:00 p.m.	8:00 a.m.–3:00 p.m.
Wireless Internet Access	7:30 a.m.–7:00 p.m.	8:00 a.m.–7:00 p.m.	8:00 a.m.–3:15 p.m.
Technology Showcase	11:00 a.m.–7:00 p.m.	11:00 a.m.–1:00 p.m. 4:00 p.m.–7:00 p.m.	11:00 a.m.–2:00 p.m.
Networking Plaza	11:00 a.m.–7:00 p.m.	11:00 a.m.–7:00 p.m.	11:00 a.m.–2:00 p.m.
Concourse Experiences	11:00 a.m.–5:00 p.m.	11:00 a.m.–5:00 p.m.	10:00 a.m.–3:30 p.m.
Executive Meeting Center	10:00 a.m.–5:00 p.m.	8:00 a.m.–5:00 p.m.	8:00 a.m.–3:00 p.m.
Coat & Bag Check	7:00 a.m.–7:30 p.m.	7:00 a.m.–7:30 p.m.	7:30 a.m.–5:00 p.m.



BI Indicates Business Insight

TI Indicates Technology Insight

Wireless Internet Access

IDF's Wi-Fi network provides attendees with free wireless Internet access throughout the venue with the exception of the Technology Showcase. The network is DHCP enabled and supports 802.11 a/b/g/n protocols.

SSID is IDF16

Wireless is open (no encryption). If you require a secure connection we recommend using your company's VPN. If you have challenges connecting to the Internet, wireless connectivity experts are located at the Info Desk on Level 2.

IDF Resources – Help. Connect. Inform. Update.

Make your IDF experience great! The staff at the Level 2 Info Desk can point you in the right direction or provide assistance with your wireless network configuration and the IDF Mobile App.

Security

The Intel Developer Forum is committed to providing a safe and secure environment. Here are some security procedures for IDF16.

- Forum badges must be worn and visible at all times during IDF. They may not be shared or exchanged with any person or persons. Violators' badges will be confiscated.
- Any participant not complying with security measures will be denied admittance and no refund will be given.

Intel or its authorized representatives reserve the right to take any security measures they deem appropriate to increase the safety of participants and exhibitors, without prior notice. Intel or its authorized representatives reserve the right to change the policies set forth herein, without prior notice, and have sole discretion to deny entry to anyone.

For full security disclosure see:
https://idfregistration.com/registration/clientConfig/IDF/E14/IDFTOS.pdf

Personal Release

Intel, or others on behalf of Intel, will be photographing, audio and/or video recording, and webcasting at IDF16 events. This includes, but is not limited to Forum Keynotes, Technical Sessions, the Technology Showcase, and other activities. These activities may include your image or likeness. You agree that Intel may use your image or likeness, if captured, for promotional purposes.

For more information see:
https://idfregistration.com/registration/clientConfig/IDF/E14/IDFTOS.pdf

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Opening Keynote | Tuesday, August 16

9:00 a.m.–10:30 a.m. | Level 3, Keynote Hall

Brian Krzanich
Chief Executive Officer
Intel Corporation

Keynotes | Wednesday, August 17

9:00 a.m.–10:30 a.m. | Level 3, Keynote Hall

Dr. Venkata "Murthy" Renduchintala
President, Client and Internet of Things
Businesses and Systems Architecture Group
Intel Corporation

Diane M. Bryant
Executive Vice President,
General Manager
Data Center Group
Intel Corporation

FEATURED EXPERIENCES

Technology Insights | Tuesday, August 16

Building Winning Products with Intel® Advanced Technologies and Custom Foundry Platform

SPCTI01, 11:00 a.m.–12:00 p.m. | Level 2, Room 2016

Mark T. Bohr, Intel Senior Fellow, Technology & Manufacturing Group; Director, Process Architecture & Integration, Intel Corporation

Zane Ball, Vice President, Technology and Manufacturing Group and Co-General Manager, Intel Custom Foundry, Intel Corporation

Scaling to Meet the Growing Needs of Artificial Intelligence (AI)

ANATI01, 4:00 p.m.–5:00 p.m. | Level 2, Room 2016

Pradeep Dubey, Intel Fellow, Intel Labs Director, Parallel Computing Lab, Intel Corporation

Technology Insights | Wednesday, August 17

Evolving Data Center Infrastructure: Intelligent and Software Defined

CLDTI01, 11:00 a.m.–12:00 p.m. | Level 2, Room 2001

Das Kamhout, Cloud Platforms Principal Engineer, Intel Corporation

Brian Womack, Director, DSG SDI Distributed Infrastructure Analytics (DIA), Intel Corporation

Accelerating Innovation with Next-generation Intel® Atom™ Processor-based Platform

IOTTI01, 11:00 a.m.–12:00 p.m. | Level 2, Room 2016

Jim Chase, Technical Product Manager, New Devices Group, Intel Corporation

Ashish Pai, Engineering Manager, Intel Corporation

James Jackson, Principal Engineer, Intel Corporation

Intel® RealSense™ Technology: Adding Human-like Sensing to Devices

NDSTI01, 1:15 p.m.–2:15 p.m. | Level 2, Room 2016

Dr. Achintya Bhowmik, Vice President, New Technology Group, General Manager, Perceptual Computing Group, Intel Corporation

Wicked Fast Storage and Beyond

MASTI01, 4:00 p.m.–5:00 p.m. | Level 2, Room 2016

Frank Hady, Intel Fellow, Chief Architect of 3D XPoint™ Storage, Intel Non-Volatile Memory Solutions Group, Intel Corporation

Business Insights

New this year are Business Insights that delve into new areas of business for Intel or the industry. Designed for business or tech managers, these sessions will discuss how Intel is forging a path in these areas, as well as roadmaps and ecosystems available to help you get and stay informed.

Business Insights | Tuesday, August 16

5G: A Transformative Force Across Industries – Business Insights

R5GBI01, 1:15 p.m.–2:15 p.m. | Level 2, Room 2016

Sandra Rivera, Vice President, Data Center Group, General Manager, Network Platforms Group Intel Corporation

Asha Keddy, Vice President, Platform Engineering Group, General Manager, Next Generation and Standards, Intel Corporation

Advanced Analytics – Trends, Challenges, Opportunities

ANABI01, 2:30 p.m.–3:30 p.m. | Level 2, Room 2016

Bob Rogers, Principal Engineer, Intel Corporation

Business Insights | Wednesday, August 17

The Value of FPGAs for Your System

SPCBI01, 1:15 p.m.–2:15 p.m. | Level 2, Room 2005

Dan McNamara, Vice President and General Manager Programmable Solutions Group, Intel Corporation

Erhaan Shaikh, Vice President, Programmable Solutions Group, Intel Corporation

Intel Fellows: Live and Uncensored! | Wednesday, August 17

SPCPN01, 2:30 p.m.–3:30 p.m. | Level 2, Room 2016

Moderator: Knut Grimsrud, Intel Fellow, Non-Volatile Memory Solutions Group Director, Storage Architecture

Amber Huffman, Intel Fellow, Non-Volatile Memory Solutions Group Director, Storage Interfaces

Genevieve Bell, Intel Senior Fellow, Vice President, Corporate Strategy Office for Corporate Sensing and Insights

Mark Bohr, Intel Senior Fellow, Technology & Manufacturing Group; Director, Process Architecture & Integration

Pradeep Dubey, Intel Fellow, Intel Labs Director, Parallel Computing Lab

Vivek De, Intel Fellow, Intel Labs, Director, Circuit Technology Research

Prashant Sethi, Intel Fellow, Software and Services Group, I/O Architecture, Windows Operating System

Mark K. Seager, Intel Fellow, Data Center Group; Chief Technology Officer, Technical Computing Group

Alberto Martinez, Intel Fellow, Platform Engineering Group; Chief Architect, Embedded Subsystems and IP Group

Udayan Mukherjee, Intel Fellow, Data Center Group; Chief Technologist, Network Infrastructure

SPECIAL ATTRACTIONS

Drone Experiences

Tuesday and Wednesday 11:00 a.m.–5:00 p.m., Thursday 10:00 a.m.–3:30 p.m. | Level 2, Concourse
Tuesday and Wednesday 10:30 a.m.–5:30 p.m. | Metreon City View

Come see us on the Level 2 Concourse to see the Intel® Aero Platform for UAV flying and running applications. We will also have Intel based drone products including high-end commercial drones such as the AscTec* Falcon 8* and the Yuneec Typhoon* H Drone with Intel® RealSense™ Technology.

Collision Avoidance Challenge
Take a walk across the street to the Metreon City View to try out collision avoidance on the latest drone from Yuneec, the Typhoon* H with Intel® RealSense™ Technology. See for yourself how the Typhoon H self-navigates around obstacles and avoids collisions as you guide it through the environment. You might even win your own Typhoon* H just by dropping by!

Virtual Reality Experiences

Tuesday and Wednesday 11:00 a.m.–5:00 p.m., Thursday 10:00 a.m.–3:30 p.m. | Level 2, Concourse

Try the latest high-end VR experiences using Intel® Core™ i7 devices, using both room-scale VR with HTC Vive* and the new Oculus Touch motion controllers

Or test your VR skills for a chance to win! Prizes will go to the top 3 scores. The game will highlight different Intel technologies and show you how Intel software development tools can help you innovate. Each participant will receive a pair of Google cardboard VR glasses.

Data Center Experience

Tuesday and Wednesday 11:00 a.m.–5:00 p.m., Thursday 10:00 a.m.–3:30 p.m. | Level 2, Concourse

Stop by to see how Intel data center technologies are revolutionizing music, sports, entertainment, and gaming. Experience live music in immersive 360° virtual reality or interact with sporting events in new ways. Make sure to play our live data center-based games to see if you can be crowned winner of the IDF pentathlon and take home a prize worth $10,000.

#HackHarassment

BOOTH: Tuesday and Wednesday 10:00 a.m.–5:00 p.m.; Thursday 9:00 a.m.–3:30 p.m. | Level 2, Concourse
PANEL: Saying Nothing Says Everything, Wednesday 1:15 p.m.–2:15 p.m. | Level 3, Room 3016

Visit the #HackHarassment booth and sign up to take up the pledge.
Participate in a panel discussion about online harassment across digital communities. Hear about the challenges, interact with panelists, and learn how you can help make the Internet safer and more inclusive.
For more information visit: hackharassment.com/IDF16

Special Session: Accelerating Innovation with Next-generation Intel® Atom™ Processor-based Platform

Wednesday 11:00 a.m.–12:00 p.m. | Level 2, Room 2016

Intel® Joule™ is here! Come learn about Intel's next-generation platform and what it can do for your IoT solution.

Tech Chats

Tuesday and Wednesday 10:30 a.m.–12:30 p.m. and 1:00 p.m.–3:00 p.m., Thursday 9:30 a.m.–11:30 a.m.
Level 2, Tech Chats Area (across from the Technical Sessions Hallway)

Tech Chats allow you to connect with Intel experts and engineers in a causal setting and learn from knowledgeable, experienced speakers on a variety of topics.

Check out the full schedule of Tech Chats on pages 12–21 of this Pocket Guide, view them on the Mobile App, or check the daily listing on the plasma on Level 2.

New this year!
Tap in to the Tech Chat area and complete a short evaluation for a chance to win the daily prize.

Networking Plaza

Tuesday and Wednesday 11:00 a.m.–7:00 p.m., Thursday 11:00 a.m.–2:00 p.m.
Level 1, Technology Showcase

Don't miss out on the exciting activities planned in the Networking Plaza, located at the front of the Technology Showcase Exhibit Hall. Presentations and activities led by:

- Cisco*
- Ninebot*
- Live Data Center Q&A
- IoT Solution Partners*
- Quanta*

Be sure to check the IDF mobile app for the most up-to-date information.

IDF Innovator Lounge

Tuesday and Wednesday 10:30 a.m.–5:00 p.m., Thursday 9:30 a.m.–3:00 p.m. | Level 3, Concourse

America's Greatest Makers

Meet some of the contestants from Season 1 of the *America's Greatest Makers* reality competition and see their projects and demos.

Calling all makers, inventors, designers, and engineers!
America's Greatest Makers is now casting for Season 2 of the hit reality television competition. Think you have an amazing idea for the next smart connected device? Visit us and learn more.

Intel® Joule™

Visit with developers who are using the power of the Intel® Joule™ compute module to bring their most imaginative ideas to life.

Maker Space

Participate in a variety of workshops and talks with industry leaders, makers, and innovators. Experience hands-on labs and innovative demos focused on Intel hardware, and engage with technical experts on the future of innovation with Intel.

Thud Rumble Pro-Maker DJ Collective

Join Thud Rumble, leading makers for pro DJ gear, as they showcase their latest hardware prototypes and hacks. You'll get hands-on lessons in how to pair Intel technology with recording studio equipment: DIY turntable, mixer, and drum machine stations.

ALL TECHNICAL SESSIONS BY TRACK

Analytics (ANA)

		Day & Time	Room #
ANATC01	Overview of FPGA in Compression Applications	T 10:30–12:30	TC Station 1
ANATS01	Deep Learning Frameworks and Optimization Paths on Intel® Architecture	T 11:00–12:00	2001
ANAHL01	Hands-on: IoT Analytics Workflow: Processing Time Series Data on Trusted Analytics Platform (TAP)	T 1:00–3:00	2011
ANATS03	Enabling an End-to-End Architecture for Autonomous Cars	T 1:15–2:15	2001
ANATS05	How to Parallelize Neural Networks (xNNs) for Intel® Xeon Phi™	T 2:30–3:30	2001
ANABI01	Advanced Analytics – Trends, Challenges, Opportunities	T 2:30–3:30	2016
ANAHL02	Hands-on: IoT Analytics Workflow: Processing Time Series Data on Trusted Analytics Platform (TAP) (Repeat)	T 3:30–5:30	2011
ANATS07	Innovative Use of Analytics and Machine Learning: Security, Network Function Virtualization (NFV), and Optimized Infrastructure	T 4:00–5:00	2001
ANATI01	Scaling to Meet the Growing Needs of Artificial Intelligence (AI)	T 4:00–5:00	2016
ANATS02	Apache Spark* in Enterprise Analytics	W 11:00–12:00	2002
ANATS04	End-to-End Analytics Solutions with Trusted Analytics Platform	W 1:15–215	2001
ANATS06	The Complete Toolset for Accelerating Analytics – From Optimized System Architecture to Accelerators	W 2:30–3:30	2001
ANATS08	Open Source Solutions for Network Intelligence	W 4:00–5:00	2001

Cloud & Software Defined Infrastructure (CLD)

CLDTC01	Software Patch Panel in Data Plane Development Kit (DPDK) – Usage Models, Performance Considerations, and Design Options	T 10:30–12:30	TC Station 2
CLDTS01	Deploying Private Clouds: Case Study and Practical Deployment Considerations	T 11:00–12:00	2002

Cloud & Software Defined Infrastructure (CLD) cont'd		Day & Time	Room #
CLDTC02	Breaking the Bottleneck: Future of Storage in the Modern Data Center	T 1:00–3:00	TC Station 1
CLDTS02	State of the Stack: What to Expect of OpenStack*, Compute, Network, and Storage	T 1:15–2:15	2002
CLDTS06	Next Generation Rack Scale Design	T 2:30–3:30	2002
CLDTC03	Open Security Controller – Security Orchestration for a Software Defined Data Center	W 10:30–12:30	TC Station 1
CLDTI01	Evolving Data Center Infrastructure: Intelligent and Software Defined	W 11:00–12:00	2001
CLDHL01	"Snap Lab": Using Snap to Implement Telemetry	W 1:00–3:00	2011
CLDTS03	Netflix* Content Delivery Network (CDN) Encryption Journey – Going the Extra Mile	W 1:15–2:15	2002
CLDTS05	Strategies and Tools to Optimize Modern Workloads	W 2:30–3:30	2002
CLDHL02	"Snap Lab": Using Snap to Implement Telemetry (Repeat)	W 3:30–5:30	2011
CLDPN01	Silicon Photonics and the Future of Optical Connectivity in the Data Center	W 4:00–5:00	2002
CLDTC04	Intel® Open Network Platform and Enhanced Platform Awareness	Th 9:30–11:30	TC Station 6
CLDTS04	Cryptography and Compression Acceleration for NFV, Cloud, and Hyper-Converged Solutions	Th 1:00–2:00	2002
CLDPN02	Redfish* – An Open Industry Standard to Enable Modern Scale-out IT Infrastructure	Th 2:15–3:15	2002
CLDTS07	Secure Traffic Monitoring for Virtualized Workloads in SDN & NFV Deployments	Th 2:15–3:15	2008

Analytics
Cloud & Software Defined Infrastructure
Internet of Things
Memory & Storage
Software

ALL TECHNICAL SESSIONS BY TRACK

Connectivity (CON)		Day & Time	Room #
CONTC01	Thunderbolt™ 3	T 10:30–12:30	TC Station 3
CONTS04	Tools and Methodologies for High Speed Differential I/O Lossy Channel Receiver Test Calibration	T 11:00–12:00	2008
CONTC02	Easy Device Debug Through USB Type-C*	T 1:00–3:00	TC Station 2
CONTS01	USB Type-C* – Enabling and Extending the USB Connector of the Future	T 1:15–3:15	2008
CONTS02	Simplified Platform Power Measurement Using USB Type-C* Interface to Drive Software Power Optimization	T 4:00–5:00	2008
CONTC03	PHY Interface for the PCI Express* (PIPE) Specification Updates for PCIe 4.0 and USB Type-C*	W 10:30–12:30	TC Station 2
CONBZ02	Intel's Connected Home Infrastructure	W 11:00–12:00	2007
CONTC04	Using Redfish* for Remote Firmware Configuration and Management	W 1:00–3:00	TC Station 3
CONBZ03	Thunderbolt™ 3 Technology – The USB Type-C* that Does It All	W 1:15–2:15	2007
CONTS03	Shape the Personal Home Gateway: Flexible Design for the Connected Home	W 2:30–3:30	2007
Internet of Things (IOT)			
IOTHL01	Lab: Intel® IoT Gateway Developer Hub: Unlock the Potential!	T 1:00–3:00	2010
IOTHL02	Lab: Intel® IoT Gateway Developer Hub: Unlock the Potential! (Repeat)	T 3:30–5:30	2010
IOTTS01	Bringing the Internet of Things to Life: Rapid Innovation Using the Intel® IoT Platform	T 4:00–5:00	2007
IOTTS02	Building Embedded and IoT Solutions with Intel® Media SDK for Intel® Atom™ Platforms	W 11:00–12:00	2008
IOTTI01	Accelerating Innovation with Next-generation Intel® Atom™ Processor-based Platform	W 11:00–12:00	2016
IOTHL03	Lab: Intel® Quark™ Microcontroller Development Tools	W 1:00–3:00	2010

Internet of Things (IOT) cont'd		Day & Time	Room #
IOTTS03	Intel® vPro™ Technology in Retail	W 1:15–2:15	2008
IOTTS04	IoT for Intervention During Equipment Failure	W 2:30–3:30	2008
IOTHL04	Lab: Intel® Quark™ Microcontroller Development Tools (Repeat)	W 3:30–5:30	2010
IOTTS05	Low-power Wake-up Radios for IoT: Standards and Technology	W 4:00–5:00	2008
IOTTS06	Portable Particulate Matter Sensor Powered with Intel® Curie™ Module	Th 9:30–10:30	2008
IOTTS07	Open Connectivity Foundation: Architecture, Programming, and Data Models	Th 10:45–11:45	2008

Maker (MAKE)			
MAKE001	Workshop: Intro to Home Automation Using the Intel® Joule™ Compute Module	T 11:00–12:00	3014
MAKE002	Workshop: Building Mobile Apps for Connected IoT Products in Minutes	T 1:15–2:15	3014
MAKE003	Panel Discussion Hosted by Hackster.io: Balancing Act of Open and Closed	T 2:30–3:30	3014
MAKE004	Workshop: Building a Photobooth Using Visual Programming in Minutes	T 4:00–5:00	3014
MAKE005	Workshop: Building an Industrial IoT Solution Using the Grove IoT Commercial Developer Kit	W 11:00–12:00	3014
MAKE006	Workshop: Intro to Home Automation Using the Intel® Joule™ Compute Module	W 1:15–2:15	3014
MAKE007	Development with tinyTILE* Utilizing Intel Technology	W 4:00–5:00	3014
MAKE008	Microsoft Windows* 10 IoT Core* & the Intel® Joule™ Compute Module from Maker to Market	Th 9:30–10:30	3014
MAKE009	Workshop: Intro to Home Automation Using the Intel® Joule™ Compute Module	Th 10:45–11:45	3014
MAKE010	Introduction to Perceptual Computing Using Intel® RealSense™ & the Intel® Joule™ Compute Module	Th 1:00–2:00	3014

Analytics · Connectivity · Internet of Things · New Devices & Services · PC Innovation · Software · Special

ALL TECHNICAL SESSIONS BY TRACK

Memory & Storage (MAS)		Day & Time	Room #
MASTC01	3D XPoint™ Technology, Intel® Optane™ Technology: Learn All About It!	T 10:30–12:30	TC Station 6
MASTS02	Modernizing Data Center Storage with All Flash, Hyper-Converged Infrastructure	T 11:00–12:00	2003
MASTC02	Feature Sets for High Availability Storage Architecture	T 1:00–3:00	TC Station 3
MASTS03	Storage Snapshot and Intel® VTune™ Amplifier Storage Analysis – Opening Your Eyes to Storage Bottlenecks	T 1:15–2:15	2003
MASBZ01	General Memory	T 2:30–3:30	2003
MASTS05	Designing Effective Far Memory Tiers with NVMe* SSDs	T 4:00–5:00	2003
MASTC03	Silent Data Corruption: When Data Disappears Without a Sound	W 10:30–12:30	TC Station 3
MASTC04	Memory Validation: Healthy Memory for Today's Connected World	W 1:00–3:00	TC Station 2
MASTC05	Take Your Data Center Out of the Stone Age and Enter into the Modern Era by Replacing Your Legacy HDDs with SSDs	W 1:00–3:00	TC Station 4
MASTS01	NVM Express*: Transforming Storage in the Cloud	W 1:15–2:15	2009
MASTS04	Persistent Memory in Windows	W 4:00–5:00	2007
MASTI01	Wicked Fast Storage and Beyond	W 4:00–5:00	2016
MASTS06	Unifying the Storage Interface Across Client and Data Center	Th 9:30–10:30	2002
MASHL01	Lab: PCIe* NVMe* SSD Manageability for High Performance and High Availability	Th 9:30–11:30	2010
MASTS07	SPDK – Building Blocks for Scalable, High Performance Storage Applications	Th 10:45–11:45	2002
MASHL02	Lab: PCIe* NVMe* SSD Manageability for High Performance and High Availability (Repeat)	Th 1:00–3:00	2010

New Devices & Services (NDS)

		Day & Time	Room #
NDSBZ01	Intel® Knowledge Builder for Intel® Curie™ Module and Intel® Quark™ SE Microcontroller	T 11:00–12:00	2007
NDSPN01	Growing Opportunities in the UAV Industry	T 1:15–2:15	2007
NDSTS01	Building Intel® Curie™ Products Starting from Arduino 101* Boards	T 2:30–3:30	2004
NDSTS02	Intel® Curie™ Technology: Transforming Experiences	T 4:00–5:00	2004
NDSTS03	Intel® Robotics Overview	W 11:00–12:00	2004
NDSTI01	Intel® RealSense™ Technology: Adding Human-like Sensing to Devices	W 1:15–2:15	2016
NDSTS04	Deliver Amazing Connected Drone Experiences with the Intel® Aero Platform for UAV	W 2:30–3:30	2004
NDSTS05	Getting Started with the Intel® RealSense™ Robotic Development Kit	W 4:00–5:00	2004

PC Innovation (PCI)

PCITS02	Designing to Meet New Expectations for Audio Experiences and Standards Critical for Competitiveness	T 11:00–12:00	2009
PCITS01	Touch/Stylus Technologies for 2016 – Intel® and Ecosystem Drives Improved Touch/Stylus User Experience	W 11:00–12:00	2000
PCITS03	Google Play* on Chrome OS* + Intel® Architecture – A Primer on Developing the Best Apps	W 1:15–2:15	2000
PCITS04	Evolving the 2 in 1 through New Usages, Technologies, and Form Factor Design Optimization	W 2:30–3:30	2000
PCITS05	Intel® Authenticate – Innovation and Multi-Factor Authentication for Enterprise	W 4:00–5:00	2000

Cloud & Software Defined Infrastructure
Internet of Things
Memory & Storage
New Devices & Services
PC Innovation
Software

ALL TECHNICAL SESSIONS BY TRACK

PC Innovation (PCI) cont'd

		Day & Time	Room #
PCITS06	Enhancing and Extending Intel® Unite™ with Plugins	Th 9:30–10:30	2004
PCITS07	Driving Enterprise Value with Intel® Core™ vPro™ Processor	Th 10:45–11:45	2004
PCITS08	Modern Standby: Why and How	Th 2:15–3:15	2004

Road to 5G (R5G)

R5GBI01	5G: A Transformative Force Across Industries – Business Insights	T 1:15–2:15	2016
R5GTS01	5G: Redefining Mobility	T 4:00–5:00	2002
R5GTS02	IoT Opportunities Enabled by 5G	W 11:00–12:00	2003
R5GTS03	Scalable 5G Massive MIMO Design with Intel® Xeon® Platforms	W 1:15–2:15	2004
R5GTS04	5G Trials: Virtual RAN & Mobile Edge Computing	W 2:30–3:30	2009
R5GTS06	CloudCell: Cell-less Network on IA	W 4:00–5:00	2009
R5GTS05	Intel® Technology to Power the 5G Network: An Architecture Deep Dive	Th 1:00–2:00	2008

Software (SOF)

SOFTC01	New Firmware Security Requirements for the Modern Data Center	T 10:30–12:30	TC Station 4
SOFTC03	Accelerating Large Scale Business Analytics with Intel® Xeon® and Microsoft SQL Server 2016*	T 10:30–12:30	TC Station 5
SOFTS01	Accelerating Machine Learning on Apache Spark*	T 11:00–12:00	2006
SOFTC02	Building End-to-End Pipelines with Distributed Machine Learning on Apache Spark*	T 1:00–3:00	TC Station 4

Software (SOF) cont'd		Day & Time	Room #
SOFTS02	ChromeOS* and coreboot* on Intel® Architecture – An Engineering Primer for Developers, Partners, OEMs, and ODMs	T 1:15–2:15	2006
SOFTS03	ChromeOS* and coreboot* on Intel® Architecture Platforms – A Primer	T 2:30–3:30	2006
SOFTS05	Intel® Software Guard Extensions Technology Overview, and Programming Model	T 4:00–5:00	2006
SOFTC04	Performance Analysis of Cloud Workloads	W 10:30–12:30	TC Station 4
SOFTS04	Enabling Dynamic Usage Models for FPGA with the Accelerator Abstraction Layer Software Technology	W 11:00–12:00	2006
SOFTC07	Intel® Media Software Tool Products Overview	W 1:00–3:00	TC Station 5
SOFTC08	Intel's Groundbreaking New Application Security Paradigm – Intel® SGX	W 1:00–3:00	TC Station 6
SOFTS06	Machine Learning: Optimizing Deep Learning Usages on Intel® Client Platform	W 1:15–2:15	2006
SOFTS07	Microsoft Azure Stack*: A Platform View – Insights to Hardware Requirement	W 2:30–3:30	2006
SOFTS08	Solving the Holy Grail of IoT: "0 Touch" Device Onboarding	W 4:00–5:00	2006
SOFTS09	Techniques for Optimizing Cloud-native Runtimes on Intel® Architecture	Th 9:30–10:30	2006
SOFHL01	Introduction to Autonomous Robotics	Th 9:30–11:30	2011
SOFTC10	Sensors and Actuators for IoT: Open Source Device Libraries Support for Over 150 Different Devices	Th 9:30–11:30	TC Station 1
SOFTC09	Strengthen Multi Factor Authentication for the Enterprise with Intel® Authenticate Solution	Th 9:30–11:30	TC Station 3

Analytics
Cloud & Software Defined Infrastructure
Internet of Things
New Devices & Services
PC Innovation
Road to 5G
Software
Visual Experience

ALL TECHNICAL SESSIONS BY TRACK

Software (SOF) cont'd		Day & Time	Room #
SOFTC06	Vectorization, the "Other" Parallelism You Need to Take Advantage Of!	Th 9:30–11:30	TC Station 5
SOFTS10	OpenHPC* and Intel® HPC Orchestrator, System Software Stacks Providing Key Building Blocks of Intel® Scalable System Framework	Th 10:45–11:45	2006
SOFTS11	Orchestrating Virtual Security Functions for Software Defined Infrastructure	Th 1:00–2:00	2006
SOFTS12	Control Flow Enforcement Technology Targeting Return Oriented Programming (ROP) Attack Prevention	Th 2:15–3:15	2006

Special (SPC)			
SPCSS01	Nokia Gold Sponsor Session: Transforming Data Center Architecture to Enable the Digital Future	T 11:00–12:00	2004
SPCTI01	Building Winning Products with Intel® Advanced Technologies and Custom Foundry Platforms	T 11:00–12:00	2016
SPCTC01	When to Use Low-Cost FPGAs with Intel® CPUs in IoT Applications	T 1:00–3:00	TC Station 5
SPCSS02	Lenovo Gold Sponsor Session	T 1:15–2:15	2004
SPCSS03	Dell Gold Sponsor Session	T 1:15–2:15	2009
SPCSS04	GE Gold Sponsor Session	T 230–3:30	2007
SPCSS05	Ericsson Gold Sponsor Session	T 2:30–3:30	2009
SPCTC02	The Art of Integration in an SoC – Stratix* 10 SoC FPGA Architecture	W 10:30–12:30	TC Station 6
SPCSS06	Inspur Gold Sponsor Session: Inspur InCloudRack: Converged System with Intel® Rack Scale Design	W 11:00–12:00	2005
SPCSS08	IBM Gold Sponsor Session	W 1:15–2:15	2003
SPCBI01	The Value of FPGAs for Your System	W 1:15–2:15	2005

Special (SPC) cont'd

		Day & Time	Room #
SPCPN02	#HackHarassment: Saying Nothing Says Everything	W 1:15–2:15	3016
SPCSS09	Supermicro Gold Sponsor Session	W 2:30–3:30	2003
SPCSS07	Samsung Gold Sponsor Session: Transforming Memory for Next-generation Servers	W 2:30–3:30	2005
SPCPN01	Intel Fellows: Live and Uncensored!	W 2:30–3:30	2016
SPCTS01	Enabling FPGAs for Software Programmers	W 4:00–5:00	2005

Virtual Reality & Gaming (VRG)

VRGTS01	Bringing Virtual Reality to the Mainstream	T 11:00–12:00	2005
VRGTS02	Overclocking Innovation: 2016 Enhancements and New Opportunities	T 1:15–2:15	2005
VRGTS03	Developing Virtual Reality Solution with Intel® Architecture	T 2:30–3:30	2005
VRGTS04	The Sensification of Virtual Reality Using Intel® RealSense™ Technology	T 4:00–5:00	2005

Visual Experience (VSE)

VSETS01	New Media and Visual Experiences in the Next Generation Graphics Architecture	T 4:00–5:00	2009
VSETS02	Display Connectivity with Intel® Core™ Processors	W 11:00–12:00	2009
VSETS03	Second Wave of Visual Cloud	W 4:00–5:00	2003

Cloud & Software Defined Infrastructure
Connectivity
New Devices & Services
PC Innovation
Software
Special
Visual Experience
VR, Gaming

Session Evaluations and Prizes

Tuesday: Intel® Joule™ 570x Developer Kit
Wednesday: Recon Jet™ Eyewear
Thursday: Yuneec Typhoon* H Drone with Intel® RealSense™ Technology

Completing an IDF online session evaluation[1] by 10:00 a.m. the day following the session automatically enters you in a drawing to win the prizes listed above. Winners will be chosen at random and notified via email. Copies of the complete sweepstakes rules are available at the Info Desk on Level 2.

Only U.S. residents 18 years of age or older are eligible to win.

[1]Not all sessions are eligible for evaluation.

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DAY 1 SESSION AGENDA Tuesday, August 16

	Rm 3014	Rm 2016	Rm 2001
11:00–12:00	**MAKE001** Workshop: Intro to Home Automation Using the Intel® Joule™ Compute Module ★★	**SPCTI01** Building Winning Products with Intel® Advanced Technologies and Custom Foundry Platforms ★★	**ANATS01** Deep Learning Frameworks and Optimization Paths on Intel® Architecture ★★
Lunch 11:00–1:00			
1:00–1:15			
1:15–2:15	**MAKE002** Workshop: Building Mobile Apps for Connected IoT Products in Minutes ★	**R5GBI01** 5G: A Transformative Force Across Industries – Business Insights	**ANATS03** Enabling an End-to End Architecture for Autonomous Cars ★★
2:30–3:30	**MAKE003** Panel Discussion Hosted by Hackster.io: Balancing Act of Open and Closed ★	**ANABI01** Advanced Analytics – Trends, Challenges, Opportunities	**ANATS05** How to Parallelize Neural Networks (xNNs) for Intel® Xeon Phi™ ★★
4:00–5:00	**MAKE004** Workshop: Building a Photobooth Using Visual Programming in Minutes ★	**ANATI01** Scaling to Meet the Growing Needs of Artificial Intelligence (AI) ★★	**ANATS07** Innovative Use of Analytics and Machine Learning: Security, Network Function Virtualization (NFV), and Optimized Infrastructure ★★
5:00–5:30			

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Rm 2002	Rm 2003	Rm 2004	Rm 2005	Rm 2006	Rm 2007	Rm 2008	Rm 2009	Rm 2010	Rm 2011
CLDTS01 Deploying Private Clouds: Case Study and Practical Deployment Considerations ★★	**MASTS02** Modernizing Data Center Storage with All Flash, Hyper-Converged Infrastructure ★★	**SPCSS01** Nokia Gold Sponsor Session: Transforming Data Center Architecture to Enable the Digital Future ★★	**VRGTS01** Bringing Virtual Reality to the Mainstream ★	**SOFTS01** Accelerating Machine Learning on Apache Spark* ★★	**NDSBZ01** Intel® Knowledge Builder for Intel® Curie™ Module and Intel® Quark™ SE Microcontroller	**CONTS04** Tools and Methodologies for High Speed Differential I/O Lossy Channel Receiver Test Calibration ★★★	**PCITS02** Designing to Meet New Expectations for Audio Experiences and Standards Critical for Competitiveness ★★		
CLDTS02 State of the Stack: What to Expect of OpenStack*, Compute, Network, and Storage ★★	**MASTS03** Storage Snapshot and Intel® VTune™ Amplifier Storage Analysis – Opening Your Eyes to Storage Bottlenecks ★	**SPCSS02** Lenovo Gold Sponsor Session ★	**VRGTS02** Overclocking Innovation: 2016 Enhancements and New Opportunities ★★	**SOFTS02** ChromeOS* and coreboot* on Intel® Architecture – An Engineering Primer for Developers, Partners, OEMs, and ODMs ★★	**NDSPN01** Growing Opportunities in the UAV Industry ★★	**CONTS01** USB Type-C* – Enabling and Extending the USB Connector of the Future ★★	**SPCSS03** Dell Gold Sponsor Session ★	**IOTHL01** Lab: Intel® IoT Gateway Developer Hub: Unlock the Potential! ★★	**ANAHL01** Hands-on: IoT Analytics Workflow: Processing Time Series Data on Trusted Analytics Platform (TAP) ★★
CLDTS06 Next Generation Rack Scale Design ★★	**MASBZ01** General Memory	**NDSTS01** Building Intel® Curie™ Products Starting from Arduino 101* Boards ★★	**VRGTS03** Developing Virtual Reality Solution with Intel® Architecture ★	**SOFTS03** ChromeOS* and coreboot* on Intel® Architecture Platforms – A Primer ★★	**SPCSS04** GE Digital Gold Sponsor Session ★		**SPCSS05** Ericsson Gold Sponsor Session ★		
R5GTS01 5G: Redefining Mobility ★★	**MASTS05** Designing Effective Far Memory Tiers with NVMe* SSDs ★★	**NDSTS02** Intel® Curie™ Technology: Transforming Experiences ★	**VRGTS04** The Sensification of Virtual Reality Using Intel® RealSense™ Technology ★★	**SOFTS05** Intel® Software Guard Extensions Technology Overview and Programming Model ★	**IOTTS01** Bringing the Internet of Things to Life: Rapid Innovation Using the Intel® IoT Platform ★★	**CONTS02** Simplified Platform Power Measurement Using USB Type-C* Interface to Drive Software Power Optimization ★★	**VSETS01** New Media and Visual Experiences in the Next Generation Graphics Architecture ★★	**IOTHL02** Lab: Intel® IoT Gateway Developer Hub: Unlock the Potential! (Repeat) ★★	**ANAHL02** Hands-on: IoT Analytics Workflow: Processing Time Series Data on Trusted Analytics Platform (TAP) (Repeat) ★★

★ Introductory: A starting-point class
★★ Intermediate: For participants with a basic knowledge of the topic
★★★ Advanced: Assumes mastery of the fundamental principles

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DAY 2 SESSION AGENDA Wednesday, August 17

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	Rm 3014	Rm 3016	Rm 2016	Rm 2000	Rm 2001	Rm 2002	Rm 2003	Rm 2004	Rm 2005	Rm 2006	Rm 2007
11:00–12:00	**MAKE005** Workshop: Building an Industrial IoT Solution Using the Grove IoT Commercial Developer Kit ★		**IOTTI01** Accelerating Innovation with Next-generation Intel® Atom™ Processor-based Platform ★★	**PCITS01** Touch/Stylus Technologies for 2016 – Intel® and Ecosystem Drives Improved Touch/Stylus User Experience ★	**CLDTI01** Evolving Data Center Infrastructure: Intelligent and Software Defined ★★	**ANATS02** Apache Spark* in Enterprise Analytics ★★	**R5GTS02** IoT Opportunities Enabled by 5G ★★	**NDSTS03** Intel® Robotics Overview ★	**SPCSS06** Inspur Gold Sponsor Session: Inspur InCloudRack: Converged System with Intel® Rack Scale Design ★★★	**SOFTS04** Using the Accelerator Abstraction Layer (AAL) to Enable On-Demand/Dynamic FPGA Programming ★	**CONBZ02** Intel's Connected Home Infrastructure
Lunch 11:00–1:00											
1:00–1:15											
1:15–2:15	**MAKE006** Workshop: Intro to Home Automation Using the Intel® Joule™ Compute Module ★★	**SPCPN02** #HackHarassment: Saying Nothing Says Everything ★	**NDSTI01** Intel® RealSense™ Technology: Adding Human-like Sensing to Devices ★★	**PCITS03** Google Play* on Chrome OS* + Intel® Architecture – A Primer on Developing the Best Apps ★	**ANATS04** End-to-End Analytics Solutions with Trusted Analytics Platform ★★	**CLDTS03** Netflix* Content Delivery Network (CDN) Encryption Journey – Going the Extra Mile ★★	**SPCSS08** IBM Gold Sponsor Session ★	**R5GTS03** Scalable 5G Massive MIMO Design with Intel® Xeon® Platforms ★★	**SPCBI01** The Value of FPGAs for Your System	**SOFTS06** Machine Learning: Optimizing Deep Learning Usages on Intel® Client Platform ★★	**CONBZ03** Thunderbolt™ 3 Technology – The USB Type-C* that Does It All
2:30–3:30			**SPCPN01** Intel Fellows: Live and Uncensored! ★★	**PCITS04** Evolving the 2 in 1 through New Usages, Technologies, and Form Factor Design Optimization ★★	**ANATS06** The Complete Toolset for Accelerating Analytics – From Optimized System Architecture to Accelerators ★	**CLDTS05** Strategies and Tools to Optimize Modern Workloads ★★	**SPCSS09** Supermicro Gold Sponsor Session ★	**NDSTS04** Deliver Amazing Connected Drone Experiences with Intel® Aero Platform for UAV ★	**SPCSS07** Samsung Gold Sponsor Session: Transforming Memory for Next-generation Servers ★★★	**SOFTS07** Microsoft Azure Stack*: A Platform View – Insights to Hardware Requirement ★★	**CONTS03** Shape the Personal Home Gateway: Flexible Design for the Connected Home ★★
4:00–5:00	**MAKE007** Development with tinyTILE* Utilizing Intel Technology ★		**MASTI01** Wicked Fast Storage and Beyond ★★	**PCITS05** Intel® Authenticate–Innovation and Multi-Factor Authentication for Enterprise ★★★	**ANATS08** Open Source Solutions for Network Intelligence ★★	**CLDPN01** Silicon Photonics and the Future of Optical Connectivity in the Data Center ★★	**VSETS03** Second Wave of Visual Cloud ★★	**NDSTS05** Getting Started with the Intel® RealSense™ Robotic Development Kit ★★	**SPCTS01** Enabling FPGAs for Software Programmers ★★	**SOFTS08** Solving the Holy Grail of IoT: "0 Touch" Device Onboarding ★★	**MASTS04** Persistent Memory in Windows ★★★
5:00–5:30											

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Rm 2008	Rm 2009	Rm 2010	Rm 2011
IOTTS02 Building Embedded and IoT Solutions with Intel® Media SDK for Intel® Atom™ Platforms ★★	**VSETS02** Display Connectivity with Intel® Core™ Processors ★★		
		IOTHL03 Lab: Intel® Quark™ Microcontroller Development Tools ★★	**CLDHL01** "Snap Lab": Using Snap to Implement Telemetry ★★
IOTTS03 Intel® vPro™ Technology in Retail ★	**MASTS01** NVM Express*: Transforming Storage in the Cloud ★★		
IOTTS04 IoT for Intervention During Equipment Failure ★	**R5GTS04** 5G Trials: Virtual RAN & Mobile Edge Computing ★★		
		IOTHL04 Lab: Intel® Quark™ Microcontroller Development Tools (Repeat) ★★	**CLDHL02** "Snap Lab": Using Snap to Implement Telemetry (Repeat) ★★
IOTTS05 Low-power Wake-up Radios for IoT: Standards and Technology ★★	**R5GTS06** CloudCell: Cell-less Network on IA ★★		

DAY 3 SESSION AGENDA Thursday, August 18

	Rm 3014	Rm 2002	Rm 2004
9:30–10:30	**MAKE008** Microsoft Windows* 10 IoT Core* & the Intel® Joule™ Compute Module from Maker to Market ★	**MASTS06** Unifying the Storage Interface Across Client and Data Center ★★	**PCITS06** Enhancing and Extending Intel® Unite™ with Plugins ★★
10:45–11:45	**MAKE009** Workshop: Intro to Home Automation Using the Intel® Joule™ Compute Module ★★	**MASTS07** SPDK – Building Blocks for Scalable, High Performance Storage Applications ★★	**PCITS07** Driving Enterprise Value with Intel® Core™ vPro™ Processor ★★
Lunch 11:00–1:00			
1:00–2:00	**MAKE010** Introduction to Perceptual Computing Using Intel® RealSense™ & the Intel® Joule™ Compute Module ★	**CLDTS04** Cryptography and Compression Acceleration for NFV, Cloud, and Hyper-Converged Solutions ★★★	
2:15–3:15		**CLDPN02** Redfish*– An Open Industry Standard to Enable Modern Scale-out IT Infrastructure ★★	**PCITS08** Modern Standby: Why and How ★★

Lecture Session · Panel · Business Insight · Technology Insight
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Rm 2C[redacted]06	Rm 2008	Rm 2010	Rm 2011
SOFT[redacted]09 Techn[redacted]ques for Optim[redacted]zing Cloud-native Runti[redacted]es on Intel® Archit[redacted]cture ★★	**IOTTS06** Portable Particulate Matter Sensor Powered with Intel® Curie™ Module ★	**MASHL01** Lab: PCIe* NVMe* SSD Manageability for High Performance and High Availability ★★	**SOFHL01** Introduction to Autonomous Robotics ★★
SOFT[redacted]10 Open[redacted]PC* and Intel® HPC O[redacted]rchestrator, Syster[redacted]Software Stacks Provid[redacted]ng Key Building Block[redacted]of Intel® Scalable Syster[redacted]Framework ★★	**IOTTS07** Open Connectivity Foundation: Architecture, Programming, and Data Models ★★		
SOFT[redacted]11 Orche[redacted]trating Virtual Securi[redacted]y Functions for So[redacted]tware Defined Infrast[redacted]ucture ★★	**R5GTS05** Intel® Technology to Power the 5G Network: An Architecture Deep Dive ★★	**MASHL02** Lab: PCIe* NVMe* SSD Manageability for High Performance and High Availability (Repeat) ★★	
SOFT[redacted]12 Contro[redacted]Flow Enforc[redacted]ment Technology Target[redacted]g Return Orient[redacted]d Programming (ROP) A[redacted]ttack Prevention ★★	**CLDTS07** Secure Traffic Monitoring for Virtualized Workloads in SDN & NFV Deployments ★★		

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FLOOR MAPS

LEVEL 1

LEVEL 2

Rm 2006	Rm 2008	Rm 2010	Rm 2011
SOFTS09 Techniques for Optimizing Cloud-native Runtimes on Intel® Architecture ★★	**IOTTS06** Portable Particulate Matter Sensor Powered with Intel® Curie™ Module ★	**MASHL01** Lab: PCIe* NVMe* SSD Manageability for High Performance and High Availability ★★	**SOFHL01** Introduction to Autonomous Robotics ★★
SOFTS10 OpenHPC* and Intel® HPC Orchestrator, System Software Stacks Providing Key Building Blocks of Intel® Scalable System Framework ★★	**IOTTS07** Open Connectivity Foundation: Architecture, Programming, and Data Models ★★		
SOFTS11 Orchestrating Virtual Security Functions for Software Defined Infrastructure ★★	**R5GTS05** Intel® Technology to Power the 5G Network: An Architecture Deep Dive ★★	**MASHL02** Lab: PCIe* NVMe* SSD Manageability for High Performance and High Availability (Repeat) ★★	
SOFTS12 Control Flow Enforcement Technology Targeting Return Oriented Programming (ROP) Attack Prevention ★★	**CLDTS07** Secure Traffic Monitoring for Virtualized Workloads in SDN & NFV Deployments ★★		

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FLOOR MAPS

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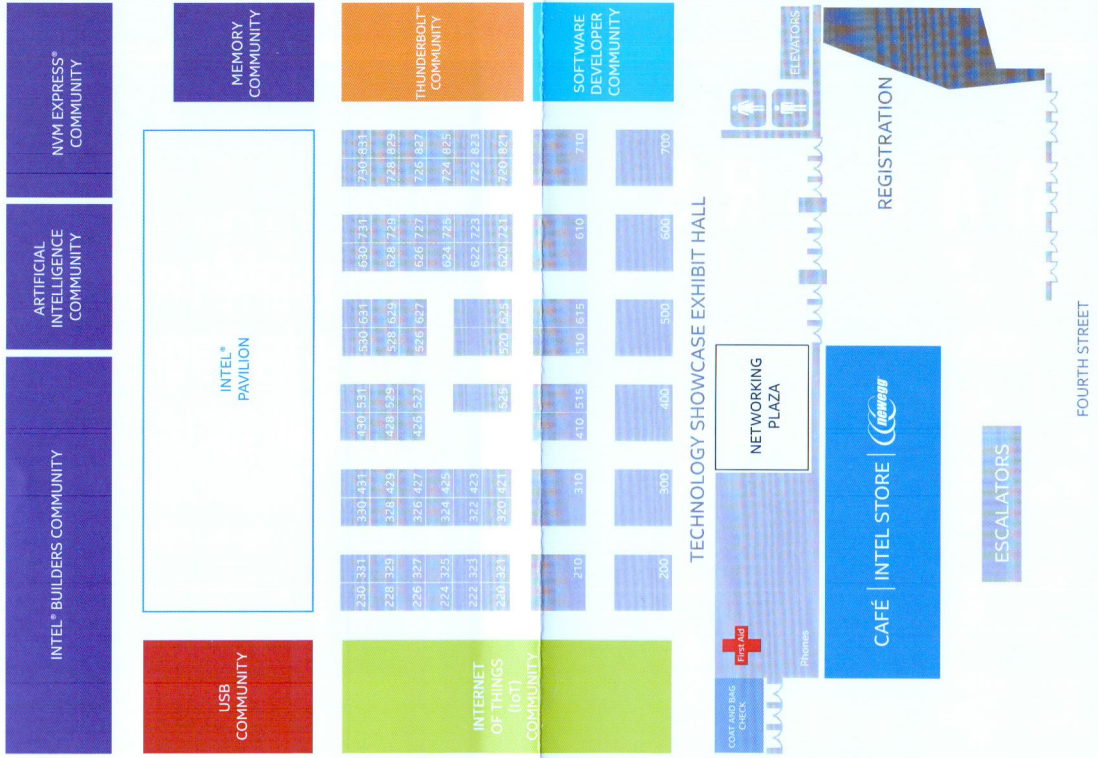

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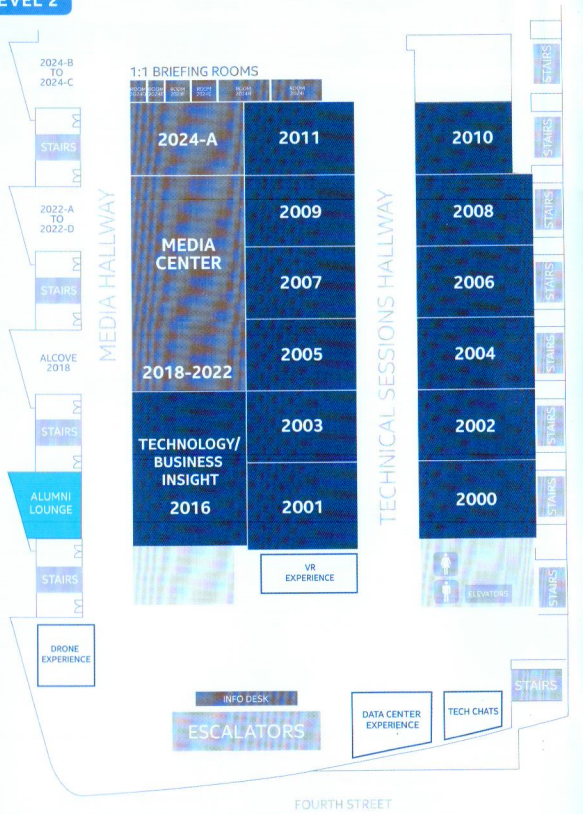

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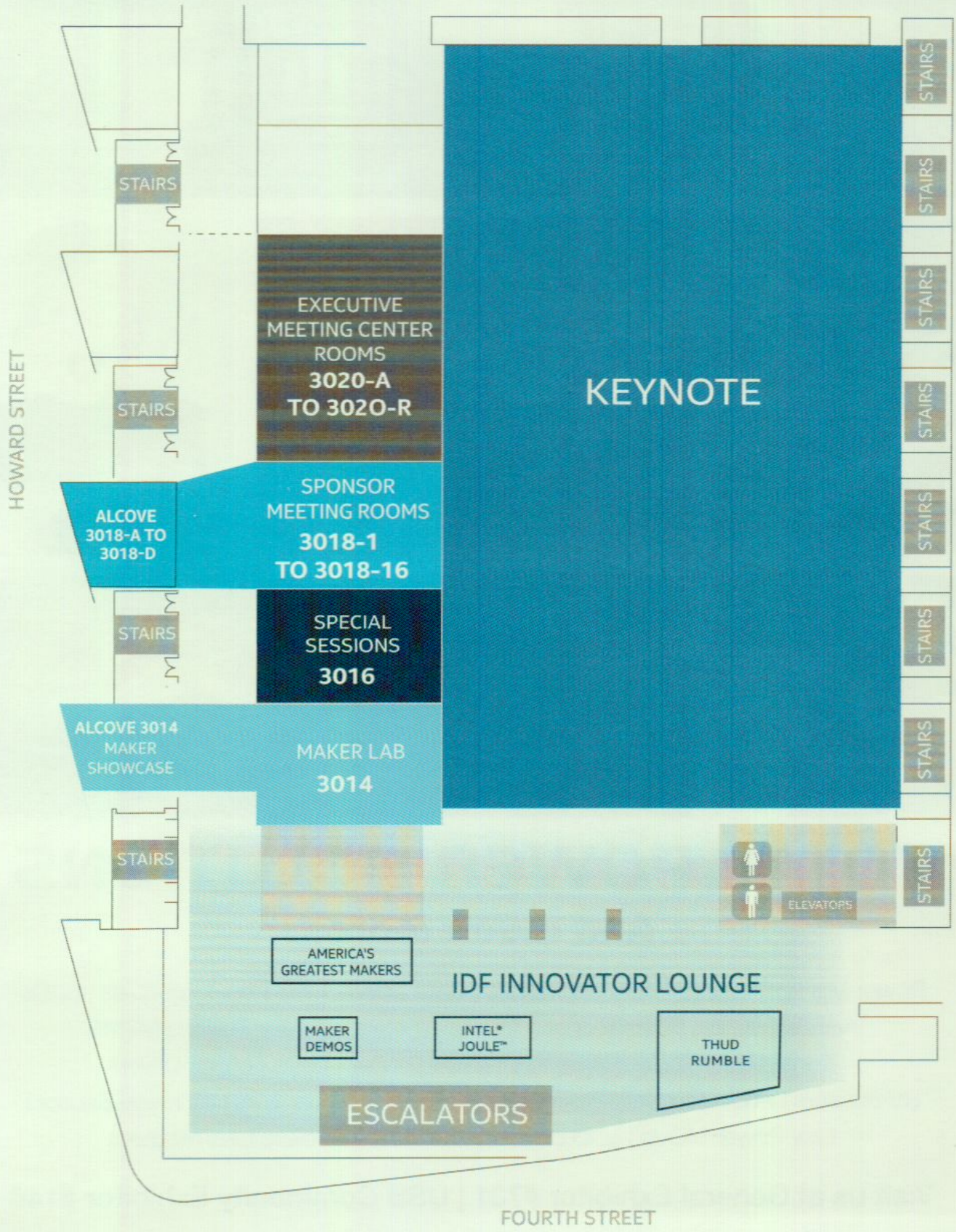
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