Authors/Presenters	Faculty	University	Title	Excellence in Microsystems Fabrication	Microsystems Innovation by Women	Award for Excellence in Quantum Algorithms or Computing	Award for Excellence in Microsystems CAD Tools and Design Methodology	Brian L Barge Microsystems Integration	Equipment Provided by Presenter	CAD Tools
Column2	Column3	Column4	Column5	Column52	Column53	Column54	Column6	Column7		
Christopher Elash	Li Chen	University of Saskatchewan	Design and Testing of a Radiation-Tolerant RISC-V Microcontroller				1		120V AC plug	
Yifei Yuan	Tze-Wei (John) Yeow	University of Waterloo	Polymer Capacitive Micromachined Acoustic Receivers for Low-Frequency Cochlear Implant Applications	1					Standard power outlets. The setup includes an oscilloscope, a power supply, and a computer, all of which need to be plugged in.	
Milad Seifnejad Haghighi	Behraad Bahreyni	Simon Fraser University	A Wafer-Level Dicing-Free Process with Direct PCB Mounting for MEMS Sensors	1						
Houssem Eddin Fehri	Marie-Josée Gour	Université de Sherbrooke	Development of Deep Cryogenic TSVs for 3D Integration of Superconducting Qubits	1						
Peyman Firoozy	Behraad Bahreyni	Simon Fraser University	A Low-Aspect-Ratio Inclined-Beam Design for Near-Zero Stiffness in MEMS Gravimeters				1			
Boris Bam Nges	Jean-Francois Bousquet	Dalhousie University	A Magnetic Induction Sea-Ice Communication Link for CTD Data Collection					1	AC mains: 120 V, 60 Hz. Outlets needed: 2 × grounded outlets. Estimated AC draw: Typical 150–200 W, max 350 W (during extended high-power transmit tests).	
Farzan Moosavi	Bilal Farooq	Toronto Metropolitan University	Quantum-Efficient Reinforcement Learning Solutions for Last-Mile On-Demand Delivery			1				
Ismael Barzani	Otmane Ait Mohamed	Concordia University	From Graph k-Coloring to Grover's Circuits via Logic Synthesis			1				
Hamid Sadrimanesh	Frederic Nabki / Yves Blaqui	École de technologie supérieure	On-ceramic Micro-Scale High-Voltage Breakdown MEMS-Based Acoustic Digital Isolator				1			Running video clip, COMSOL
Ben Cohen	Sudip Shekhar	University of British Columbia	Empowering Personalized Medicine with Microchip Biosensors For Women's Hormone Monitoring					1	Small power unit	
Abolfazl Vaheb	Dan Sameoto	University of Alberta	Durable Spin-Coated Fiberglass-Reinforced PDMS Molds for High-Fidelity Microstructuring of Polyolefins under Extreme Pressure and Temperature	1						

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Mustafa Kanchwala	Roman Genov	Univeristy of Toronto	A Reconfigurable Platform for Fast Prototyping of Implantable ASICs for Closed-Loop Neuromodulation Medical Devices					**1**	1.Power Supply – Keysight E36312A – Triple Output Programmable DC Power Supply (Heaviest equipment) 2.FPGA board #1 and Carrier card + Additional PCBs for the system 3.FPGA board #2 and Carrier card + Custom ASIC and its PCB 4.Power cords and extension cords 5.Some miscellaneous small components and adapters	
Elham Zohari	Paul Barclay	University of Alberta	Fabrication of Single-Crystal Diamond Optomechanical Cavities via Quasi-Isotropic Plasma Etching	**1**						
Omid Esmaeeli	Sudip Shekhar	University of British Columbia	Isolator-Free Laser Operation Enabled by Chip-Scale Reflections					**1**	3 pieces of equipment: 100 W – 300 W one optical spectrum analyzer, one source/measure unit, and one laser control unit	
Muhammed Abdelfatah	Ahmad Hassan	Polytechnique Montréal	Automated Analog and Mixed-Signal Circuit Design Using Artificial Intelligence-Guided Simulation-Based Optimization				1			Cadence
Jacky Jiang	Olivia Di Matteo	University of British Columbia	Halving the cost of a ubiquitous quantum rotation operation			**1**				
Nan Jiang	Kambiz Moez	University of Alberta	High-Efficiency and Wide-Input-Power-Range RF Energy Harvesters for Wireless Power Transfer System	**1**					Yes	
Bahram Jafari Akinabad	Shahriar Mirabbasi	University of British Columbia	A Phase-Delay Self-Injection LC Oscillator in 65-nm CMOS for Low Flicker Noise Signal Generation	**1**						
Samira Mehrabi	Nazir Kherani	University of Toronto	Metasurface-Engineered Light Trapping for Efficient Photoelectrocatalytic Water Splitting				**1**			
Hao Yang	Roman Genov	University of Toronto	Software-Defined Image Sensor with Motion-Adaptive Spatially Varying Exposure Rate				**1**		standard 110 V AC wall outlet or 5 V DC USB-A power input	

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Ata Khorami	Sudip Shekhar	University of British Columbia	Integrated Circuit Generator Engine				1		Yes	
Bahareh Shirmohammadi	Shahriar Mirabbasi	University of British Columbia	A Cubic Spline-Based Scheme for Signal Sampling and Reconstruction for Power-Efficient Data Acquisition		1				Yes	Cadence Virtuoso
Hassan Talaeian	Shahriar Mirabbasi	University of British Columbia	A fully on-chip Frequency Lock Loop (FLL) based chirp generator for FMCW radar applications	1						
Jonas Welsch	Edmond Cretu	University of British Columbia	From MEMS Design to Inline Integration: Polymer CMUTs for Real-Time Monitoring of Ultrasonic Welding in Composites					1	Normal plug for laptop	
Hamid Rahmati	Aleksandra Nastic	University of Ottawa	Developing a Novel Induction-Based Powder Preheating System: A Multiphysics CAD Approach to Expand the Process Window of Cold Spray Technology				1			
Dante Prins	Sudip Shekhar	University of British Columbia	DFB Laser Stabilization Against On-Chip Parasitic Reflections Using Controlled Feedback from a Silicon Ring Resonator					1		
Fatemeh Niknahad	Mohammad Zarifi	University of British Columbia	Wireless Real Time Sweat Secretion Monitoring using Waveguide-based Wearable Microfluidic-channel Sensor		1					
Jiaqin Fang	Sudip Shekhar	University of British Columbia	A High-Speed Electro-Optic (EO) Transmitter Using Passive Equalization for High-Frequency Loss Compensation in TWMZM Links					1		
Zahra Sarpanah Sourkouhi	Mohammad Zarifi	University of British Columbia	Paper-Based RFID Antennas Towards Sustainable IOT	1						
Daniel Reddy	Richard Oleschuk	Queen's University	Spot on: A green(er) approach to dried matrix spots for analysis with liquid microjunction – surface sampling probe – mass spectrometry aided by computer vision	1						
Seyediman Taghavi	Lukas Chrostowski	University of British Columbia	DC-to-GHz Modulators in Ferroelectric Nematic Liquid Crystal-on-Si Platforms					1		