



Annual Developer Conference 2026

OCTOBER 23-25, 2026

DETAILED PROGRAM / OTTAWA, CANADA



HOSTS



Registered? All attendees must be invited, please write to Nate at nathanielmailhot@cunet.carleton.ca for all matters related to this conference.

BEFORE THE CONFERENCE

Arriving Early? October 19-22

Informal developer days at Brookstreet Hotel: work sessions, demo preparation and hangouts.

BlueTides *After Dark*

Thursday, October 22 · 17:00-20:00

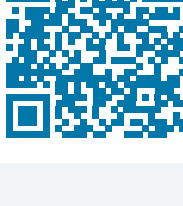
Big Rig Brewery · 101A Schneider Rd #3, Kanata

Pizza and beer on Blue Robotics! Optional developer bingo, with a Blue Robotics gift card prize.

Register: luma.com/6clucspd



REGISTER



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FRIDAY / OCTOBER 23

ArduPilot Updates and BVLOS Flights

Brookstreet Hotel

08:30-09:00	Baked Goods, Fruit and Refreshments
09:00-09:30	Introduction and Opening Remarks Nathaniel Mailhot / Jeremy Laliberté · Faculty of Engineering and Design, Carleton University Uninhabited Aircraft Systems Training, Innovation and Leadership Initiative
09:30-10:00	ArduPilot Systems Update Andrew Tridgell · ArduPilot
10:00-11:00	BVLOS Operations Development in Canada Steven Bellingham · NAV CANADA / Craig Bloch-Hansen · Transport Canada
11:00-11:30	Morning Break
11:30-12:00	Traffic Systems Standards Lindsay Mohr · AIRmarket
12:00-12:30	ArduPilot in SAIT's Curriculum Allister Schreiber · Southern Alberta Institute of Technology (SAIT)
12:30-13:15	Lunch
13:15-14:00	PANEL · Path to <i>Compliant</i> BVLOS Operations, for Canada and Beyond Dan Moss · Manna Tim Tuxworth · ArduPilot / SmartFleet.systems Lindsay Mohr · AIRmarket Carlos Ruella · Transport Canada
14:00-14:40	Lightning Talks 14:00 Omar Husain · AVSS MAVLink-ATAK Interoperability 14:10 Marc-Antoine Leclerc / Université de Sherbrooke Disturbance-Rejection Control and Side-Thruster Integration 14:20 David ("Buzz") Bussenschutt / ArduPilot · MissionPlannerRust, Zephyr HAL, and RP2350 14:30 Hideyuki Fujikawa · Drone Japan · Arivia: Water-Surface Drone Shows with ArduPilot
14:40-15:10	Enabling Long-Range BVLOS Operations at Scale Alexandre Borowczyk · Shearwater Aerospace
15:10-15:30	Afternoon Break
15:30-16:00	ArduSub: Folklore, Features and Future Eliot Sandberg / Willian Galvani · Blue Robotics
16:00-16:30	Canadian Space Agency Balloon Program Vlad Artyshchuk · Canadian Space Agency
16:30-17:00	Thrust WSH - Jet Powered Water Speed Record Attempt Peter Hall · ArduPilot / KHUnmanned

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SATURDAY / OCTOBER 24

Copters, Swarms, and Live Flight Demos

Brookstreet Hotel · Afternoon at Area X.O

08:30-09:00	Baked Goods, Fruit and Refreshments
09:00-09:30	Aerial Photography Copter Update Randy Mackay · ArduPilot
09:30-10:00	Copter Scripted Acrobatics Andy Piper · FOSS UAV
10:00-10:30	High-Speed Landing Design Isaac Tunney & John Bass · Université de Sherbrooke
10:30-10:45	Morning Break
10:45-11:10	ArduSwarm Kwaku Richter
11:10-11:30	Collective Return Home in Skybrush Tamás Nepusz · CollMot Robotics Ltd.
11:30-11:40	Lightning Talks 11:30 Patrick Hinchey / Flight Technologies · Meala Flight-Log Database
11:40-12:05	BVLOS in Canada: Regulations and Technology Tim Tuxworth · ArduPilot / SmartFleet.systems
12:05-12:45	Lunch
12:45-13:00	Bus Loading 15 minutes reserved before departure

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Live Flight Demonstrations at Area X.O

Bus transfer provided · Depart Brookstreet 13:00 · Return approximately 18:00

The final flight sequence and aircraft lineup are subject to change.

- **Andy Piper** · FOSS UAV
Aircraft: Armattan Marmotte5 variants + iFlight Nazgul5
- Scripted acrobatics with two quads.
- GPS / optical-flow switching with a guarded quad.
- Proposed "throw to VALT in FPV", after the other flights.
- **Randy Mackay** · ArduPilot
Aircraft: Aerial-photography copter + EDU650
- Aerial photography and Sanket's map-based non-GPS navigation.
- **Tim Tuxworth** · SmartFleet.systems
Aircraft: HEEWING T2 Cruza / MakeFlyEasy Mini Striver / Hexsoon EDU650
- BVLOS / DAA, crossing traffic and geofence avoidance.
- **Cameron Fedde, with Charlie Neal** · Aero Systems West
Aircraft: Quadcopter
- Multiuser web control using MAVLink over LTE.
- **Patrick Hinchey** · Flight Technologies
Aircraft: Phoenix + GriffinPro
- Proposed Phoenix endurance and Nighthawk thermal-gimbal demonstration.
- **Siddharth Purohit** · CubePilot
Aircraft: CubePilot-powered multirotor
- Dual flight-controller operation using the MCU's second core.

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SUNDAY / OCTOBER 25

Software, Hardware & Control

Brookstreet Hotel

08:30-09:00	Baked Goods, Fruit and Refreshments
09:00-09:30	Open-Source Simulation, Sim-to-Real and Companion Computing Jacopo Panerati · National Research Council Canada
09:30-10:00	Revived Simulator George Zogopoulos · Controlled Ascent
10:00-10:30	GNC and Adaptive Control Ryan Beall · Tilt Autonomy
10:30-11:00	Morning Break
11:00-11:30	AP_Periph / DroneCAN Tooling James O'Shannessy · SYPAQ Systems · Includes live peripheral demo
11:30-12:00	Autonomous VTOL Ship Landing Phuc Nguyen / Youngjong Park · Marine Drone Tech (MDT)
12:00-13:00	Lunch
13:00-13:40	Development of a Companion Software: The Good, the Bad and the Ugly Patrick Pereira (patrickelectric) + João Antônio Cardoso · Blue Robotics
13:40-14:00	Lightning Talks 13:40 Gábor Vásárhelyi / CollMot Robotics Ltd. · Skybrush Log Analyzer for ArduPilot 13:50 Sharyat · ArduPilot and Standard 922.07
14:00-14:30	Using the Other Core: Putting the Cortex-M4 Core to Work Siddharth Purohit (Sid) · CubePilot
14:30-14:50	Afternoon Break
14:50-15:20	Cockpit: Sense and Control (Almost) Anything Rafael Araujo Lehmkuhl · Blue Robotics
15:20-15:50	Rpanion Companion-Computer Software Stephen Dade · ArduPilot
15:50-16:00	Closing Thanks for attending and for your contributions to the project!

THANK YOU TO OUR SPONSORS



Schedule subject to change.