

# UNIVERSITY OF ALBERTA AERIAL ROBOTICS GROUP



We are a multidisciplinary group of students spanning multiple engineering departments and faculties. Established in 2004, our group is dedicated to developing fully autonomous remotely piloted aircraft systems (RPAS), capable of following routes and solving complex engineering challenges. Focusing on non-piloted drone navigation challenges using machine learning, our goal is to provide students with hands-on technical experience while they are still in school. Composed of students from diverse academic backgrounds we design, manufacture, and test our drones while annually representing the University of Alberta in national and international RPAS competitions. Dedicated to excellence, we drive drone innovation, foster collaboration, and prepare student members for leadership in RPAS.

## WHY SPONSOR US?

### COMPANY EXPOSURE

Media coverage at national competitions and community events, including university student fairs. Sponsors will be featured across our social media platforms. Sponsorship connects donors with motivated interdisciplinary students and links students with potential employers.

### PROVIDE OPPORTUNITIES

Partners allow and empower students to gain hands-on experience in various aspects of RPAS development, team management, and leadership skills. Sponsorship support facilitates the development of drone innovation, maintenance, and contributes to UAARG's overall growth and success.



### OUR COMPETITIONS

In 2024, we placed 2nd overall at the Canadian national competition. We bring 10 students to national and international competitions, where we exchange ideas with peers from different universities and connect with industry leaders.

### OUR INNOVATION

Within a year, we engineered a composite quadcopter drone from the ground up. Now our airframe team is innovating a brand-new design for a tilt-rotor VTOL (vertical take-off and landing) drone.

### OUR TECHNOLOGY

Processing data on its dedicated hardware, our drone interprets pictures captured by its imaging camera through real-time machine learning algorithms to detect forest fire hotspots and construct detailed maps from aerial imagery.

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