



The Aerial Robotics Team at **The Ohio State University**

Sponsorship Information Packet
(2009 – 2010)

WHO ARE WE?

The Aerial Robotics Team at The Ohio State University (colloquially referred to as “Buckeye Aerial Robotics” for the sake of brevity) is a multi-disciplinary team composed mainly of graduate and undergraduate aerospace, computer science, electrical, and mechanical engineers whose goal is to compete in the annual International Aerial Robotics Competition (“IARC”). The IARC is sponsored by the Association for Unmanned Vehicle Systems International (“AUVSI”), SAE Joint Architecture for Unmanned Systems (“SAE JAUS” or “JAUS”), and SEPDAC, Inc.

The IARC consists of specific missions that vary every couple of years, depending on the level of completion by each team. The current mission involves creating a small UAV to navigate an indoor area, utilizing a number of technologies including wireless, imaging, and ranging. Full details of the competition can found at the IARC website (<http://iarc.angel-strike.com>).

WHAT DO WE DO?

We have fun. We learn. We collaborate. Buckeye Aerial Robotics is more than going to a competition. It is about making friends, learning new technical knowledge, gaining experience working in teams, and ultimately developing skills that we can take out into the real world to create the next wave of innovation.

WHEN DO WE WORK?

All the time. General meetings are held regularly during autumn, winter, and spring quarters. At these meetings, decisions on the direction of the project are made and ideas fielded. Most tangible effort is seen, however, during each individual’s own time, be it research, construction, or programming. While a consequence of the scheduling of higher education, it is also a benefit because of its tendency to avoid groupthink. Work also continues into the summer, where the vehicle is fine tuned for entry in the competition in early August.

WHERE DO WE WORK?

We operate on The Ohio State University's Main Campus in Columbus, Ohio. Our lab space is in the Center for Automotive Research, which also contains other Ohio State engineering projects like Buckeye Bullet, ChallengeX, and Formula SAE.

WHY DO WE DO IT?

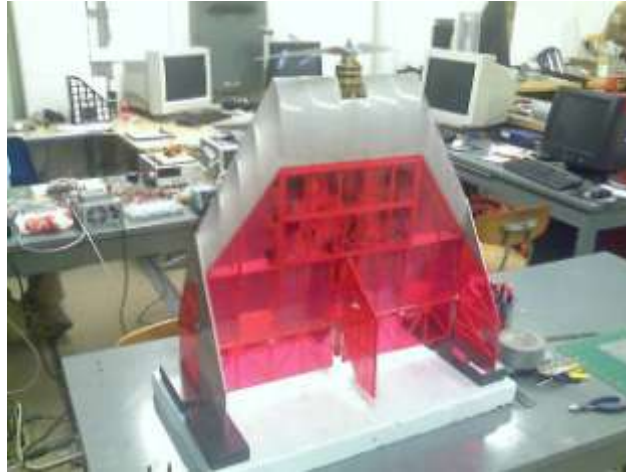
For ourselves, for others. We are striving to not only have an edge in the real world, but to, as the IARC website states, "advance the state of the art in aerial robotics yet again." We can take the knowledge we gain with the project into the field and ultimately create some truly remarkable things.

HOW DO WE DO IT?

With your help. Buckeye Aerial Robotics relies on sponsors like you to help fund our development. We rely solely on donations of money, materials, tools, parts, and equipment to complete our work. Without your help, we cannot continue work on our newest entry, a lightweight quadrotor helicopter designed to navigate the hallways and rooms of a building. Without sponsorship in the past, we would have been unable to work on the custom-fitted helicopter (prior to 2007; see below), or the delta wing plane constructed from scratch (2007-2008; see next page).



Helicopter for years prior to 2007



Delta wing entry for 2007-2008

I'M CONVINCED. HOW DO I HELP?

There are a variety of ways outside entities can aid us in our endeavors (contact information is available at the end of the packet):

- 1) Technical Documentation and Software – If you are able to supply us with information or resources that could help us in creating our newest entry, please let us know. Potential topics of interest include drafting and simulation software, image processing resources, and reference books for programming.
- 2) Tools, Equipment, and Materials – If you are able to supply us with tools, equipment, or materials, please be sure to contact a team member first. While we are a non-profit organization, due to administrative restrictions, we are not permitted to accept donations of physical items which require valuation for tax purposes. That is, if you wish to donate physical items to us, there must be no expectation of recompense for the purpose of a tax deduction.

3) Money – We are able to fully utilize funds that are donated to us, plus they are tax deductible. If you wish to donate money to the team, there are two options: online and by mail.

a. Online

i. Follow this link

(https://www.giveto.osu.edu/igive/onlinegiving/search_results.aspx?fundnum=311891)

- OR -

Go to the Ohio State iGive website

(<http://giveto.osu.edu/index.asp>), and click the link near the top that says, “Make a Gift Online.” Do a search for funds of our fund number, 311891, or “OSU Aerial Robotics Team” and click the link to our fund.

ii. Choose “Add to Gift List >>,” enter the desired amount of the right, and follow the remaining on-screen prompts.

b. Mail

i. When submitting a monetary donation by mail, please submit a short letter indicating that the funds should be deposited in the Aerial Robotics Team fund.

ii. Check and letter should be mailed to Kristina Renner, Business Manager of the Department of Electrical and Computer Engineering at the following address:

Department of Electrical and Computer Engineering
Attn: Kristina Renner
205 Drees Lab
2015 Neil Avenue
Columbus, OH 43210

After your donation has been accepted, we would be more than happy to do what we can to help promote your organization – just let us know how we can help. After submitting your donation, please provide a logo to the webmaster (contact information available on the next page) so that he can post your logo on the website (<http://tarc.org.ohio-state.edu/>) to acknowledge your support.

CONTACT INFORMATION

- For general inquiries, please e-mail Andy, the president and webmaster.
- For more detailed information about how tax deductions are processed, please contact Kristina Renner (renner.85 [at] osu.edu), Business Manager of the Department of Electrical and Computer Engineering.

President and Webmaster:

Andrew Davis
davis.2352 [at] buckeyemail.osu.edu

Vice President:

Adam Cole

Treasurer:

**THANK YOU FOR YOUR CONTRIBUTION
TO BUCKEYE AERIAL ROBOTICS!**