



A Unique Opportunity to Intern with Brains4Drones

About Us

We're a woman-owned robotics company out of Plano, TX. Since 2016, Brains4Drones has been developing AI solutions for drones. Our innovations improve data collection and navigation so that electric utilities can perform more frequent, more accurate and safer aerial inspections. We help our clients assess damage after storms and to detect problems that might cause a wildfire.

Check out our website www.brains4drones.com to learn more about us.

What to Expect

Our Internship Program is in its 7th year! We're interviewing high school students now for 30-hour unpaid apprenticeships in our Robotics Lab during your Winter Break. If you enjoy working in the Lab, we may offer you a paid internship that starts at \$15/hour. You would work flexible hours during the school year and 30-40 hours per week for at least 8 weeks during the summer. To date, we have mentored over 60 interns.

There are no fully remote internships - you will be expected to work in our Plano Lab on a real world robotics project with our [Lab Director, Goksel Dedeoglu, PhD, PE](#). You will need to make arrangements for transportation.

Benefits

You'll make valuable contributions to our products - this is not an internship where you follow someone around. You'll also interact with the founders and learn about entrepreneurship. We gladly write recommendation letters for college admissions,

Brains4Drones Summer Internship in Robotics 2024

scholarships, and programs such as Scouts. Our [CEO, Susan M. Rossbach](#), is an engineer and STEM educator. She is committed to every student having a hands-on learning experience, not just a job. You'll head off to college with good advice from your labmates and more confidence in your career choices.

Qualifications

Almost all of our interns have programming experience in FIRST Robotics or the equivalent. Many go on to major in computer science, computer engineering, or mechanical engineering.

Desired skills and experiences:

- Engineering various sensor interfaces on a robot
- Using Linux, ROS, Python, C/C++, OpenCL, OpenGL, GStreamer, OpenCV or similar
- Using deep learning AI frameworks for both training and inference, including TensorFlow, PyTorch and OpenVINO
- User Interface Development Tools such as QT, Websockets, and JavaScript
- Developing algorithms for robots or drones in real or simulated environments
- Validating and improving a design through field data collection and iterations
- Machine Learning workflows that involve scrubbing, organizing and annotating image and video data

We're a nimble team collaborating in a fun environment. The ideal candidate will be a self-manager who asks lots of questions and works well with others. Our most successful interns have worked with us for years - our Lead Developer is a former intern!

When we receive a resume, we look specifically for robotics experience.

Please make sure that your resume highlights your robotics and hands-on programming projects and *your* specific contributions. If you're a good fit, we'll ask to have a Zoom interview with you followed by an in-person tour of our Lab with a parent or guardian.

Interested?

Please submit your resume to susan@brains4drones.com.

