

ASADBЕК RUZIEV

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Engineer with experience in drones at [Air Devils](#), machining, embedded systems, and robotic systems. I have experience creating robotics startups in BESTARORG, a mobile robotics team based in Uzbekistan. Seeking robotics research for summer 2026

EDUCATION

B.S.E., Engineering (Robotics)

August 2023 - May 2027

Arizona State University, Mesa, AZ

3.4 GPA

- Dean's List Achievement Award F23-S24, Fulton Ambassadors S24-F24, Student government senator F23-S25
- Combat Robotics F24, EPICS: Engineering Projects in Community Service S24, FACE Engineering leaders' program

SKILLS AND TECHNOLOGIES

- **Soft skills:** Teamwork & Collaboration, Problem-solving, Organizational skills, Creativity, Entrepreneurial mindset
- **Micro-Controller:** Arduino IDE, Microchip PIC, ESP32, Infineon PsOC, Raspberry Pi
- **Language, Frameworks:** Python, C/C++, HTML, MATLAB & Simulink, SOLIDWORKS, Fusion 360, GD&T, schematics and PCBs at KiCad and Cadence.
- **Lab instrumentation:** Oscilloscopes, soldering, multimeters, waveform generators, laser-cutting, drilling, machining, vacuum forming, metalworking, milling

WORK EXPERIENCE

Classroom Support – Technology Consultant, ASU Enterprise Technology:

May 2023 – present

- Providing classroom support and video editing for the campus, doing assigned checks of Zoom technologies in classrooms, responding to calls, and helping fix the Zoom and Audio-visual support.
- Coordinated equipment monitoring and maintenance to ensure seamless daily operations, while delivering on-demand training for university-endorsed software and devices to enhance user proficiency.

Teacher Assistant, Fulton Schools of Engineering:

September 2023 – December 2023

- Assisted EGR 101 professor Dr. Daniel Frank and students with support in providing engineering coursework
- Provided help through office hours for students to help make catapult projects and work with Arduino

Senator – Government Operations Chair, [Undergraduate Student Government](#):

September 2023 – April 2025

- Elected representative **for the student body, actively advocating for student needs through policy-making**, and direct campus engagement.
- Drafted **and supported legislation** (5 Bills and 4 Resolutions) to improve student life, working closely with university administration and fellow senators to implement sustainable, data-informed solutions.
- **Served on key committees including** Appropriations (budget oversight for clubs and events by managing/voting on an appropriations **budget of over \$125000**) **Government Operations** (contributing to campus-wide resolutions and bills)

PROFESSIONAL PROJECTS

[Embedded Systems Design](#), EGR 304 and EGR 314

August 2025 – present

- Designed and delivered the VibeWater project with a **custom PCB** for the **actuator** and worked on the PIC18F Microchip microcontroller for seamless mechatronics integration.
- Gained expertise in the engineering design process from concept to prototyping and iteration. Currently working on ESP32 integration for the rover project

Robotic systems, EGR 455 and EGR 456

August 2023 – present

- Made a 3-DOF manipulator and a machine vision system that picks up a nut from any location you put it and returns it to its original location.
- Used Python and C++, forward and inverse kinematics in manipulators, motion control, worked with sensor/actuators