

Robert James Bailey

Richmond, VA | robertjamesbailey88@gmail.com | 804-839-2768

| <https://www.linkedin.com/in/robert-james-bailey-4254b4324/> | <https://rjbailey.journoportfolio.com/>

EDUCATION

Old Dominion University, Norfolk, VA – Bachelors of Science

Major: Electrical Engineering

Minor: Engineering Management

Expected Graduation: December 2026

J Sargeant Reynolds Community College, Richmond, VA – Associate of science

Major: Computer & Electrical Engineering

Graduated: May 2024

Dean's List: Spring 2023 | Fall 2024 | Spring 2024 |

SKILLS

| Microsoft Office | CAD | Computer hardware | Circuitry | Public speaking | Perseverance | Dedication | Collaboration | Adaptability | Creativity | Problem solving | Time management | Project Management | Teamwork | Hands on Experience with Lab equipment (Oscilloscope, Multimeter, MATLAB, Function Generator, Soldering Irons, Bread Boards, etc.) |

RELATED EXPERIENCE

Old Dominion University, Norfolk, VA

Smart Anchorless Marker Buoy Team Lead

September 2025 – May 2026

- Led the full design, construction, and system integration of a Smart Anchorless Marker Buoy capable of receiving GPS coordinates and maintaining position on the water without a traditional anchor.
- Personally, completed the majority of the prototype build, including structural assembly, wiring, power system setup, component mounting, waterproofing considerations, and final system integration.
- Managed project documentation, testing procedures, budget planning, subsystem coordination, and final presentation materials throughout the senior design process.
- Presented the Smart Anchorless Marker Buoy project at the 2026 ODU Engineering Expo, communicating the project's design purpose, technical subsystems, and real-world applications to faculty, students, and industry visitors.

J Sargeant Reynolds, Richmond, VA

Portable Soil Moisture Sensor Team Lead

August 2023 – May 2024

- Led the design and development of a portable soil moisture sensor prototype used to measure soil conditions in a simple, low-cost, and practical way.
- Created the CAD design for the sensor housing and physically built, assembled, and tested the final prototype.
- Designed and built the circuit used to collect soil moisture readings, including wiring, component layout, troubleshooting, and hardware testing.
- Organized team responsibilities, documented design progress, and helped prepare the final project presentation.

Boise State University, Boise, ID

Bioengineering Summer STEM Program

August 1st – August 31st, 2019

- Completed a summer STEM program focused on basic circuit analysis, circuit design, soldering, and hands-on electronics assembly.
- Designed, built, and tested a working pulse sensor circuit while gaining early experience with component placement, troubleshooting, and circuit performance testing.

WORK EXPERIENCE

Kroger

Fuel Center Service Associate

May 2024 - Current

- Performed daily safety walk-throughs of the fuel center to identify hazards, inspect equipment, and maintain a safe environment for customers and employees.
- Monitored pumps, spill areas, signage, and store surroundings to ensure compliance with safety procedures and company standards.

Koontz Paint & Body

Auto Body Tech

Jun 2023 - May 2024

- Collaborated with a team to restore damaged vehicles by performing assessments, repairs, surface preparation, and finishing work.
- Used hand tools, power tools, and shop equipment to complete repair tasks while maintaining safety and quality standards.
- Developed strong attention to detail, problem-solving ability, and hands-on mechanical experience in a fast-paced work environment.

CAMPUS INVOLVEMENT & STUDENT OUTREACH

ODU EA Group (Engineering Ambassador)

Student Ambassador

February 2025 - Current

- Served as a representative for the ODU Engineering program at student outreach events, including Admitted Students Day, where I engaged with prospective students and families, answered program-related questions, and shared personal insight on academic success, student involvement, and the engineering experience.