

# Anas Javaid

289-682-6100 | [ajavaid8@uwo.ca](mailto:ajavaid8@uwo.ca) | [www.linkedin.com/in/AnasJavaid/](https://www.linkedin.com/in/AnasJavaid/) | <https://github.com/AnasJavaid26> |

## PROFILE

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Aspiring Electrical Engineering student with a strong passion for robotics, embedded systems, and innovative problem-solving. Skilled in designing and integrating hardware and software to create efficient, real-world solutions. Experienced in developing Bluetooth-controlled RC cars and smart security systems with sensor integration and automated control. Highly motivated to expand technical expertise and contribute to innovative engineering projects.

## EDUCATION

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### Western University

*Bachelor of Electrical Engineering (CO-OP)*

London, ON

*Sep 2024 - Present*

- Focused on embedded systems, power electronics, and circuit design
- Developed strong technical and analytical skills in PCB design.

### Bishop Ryan Catholic Secondary School

*High School Diploma*

Hamilton, ON

*Sep 2020 - Jun 2024*

- Member of the Math Club, Diversity Council, and Coding Club.
- Assembled and prototyped a circuit board with electronic components, gaining hands-on circuit design and troubleshooting experience.

## PROJECTS

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### **Emergency Route Planner** | Academic Project

*Jan 2025 - April 2025*

- Developed a web-based emergency route planning tool using **Leaflet.js** and **Turf.js** to calculate safe navigation paths during natural disasters like floods and wildfires.
- Applied graph algorithms and GIS data to compute safest and fastest emergency routes.
- Developed prototype using **HTML**, **CSS**, **JavaScript** and OpenRouteService **API**.

### **RC Car** | Personal Project

*July 2025 - Oct 2025*

- Developed a Bluetooth-controlled RC car using Arduino Nano, HC-05 module, H-bridge motor driver, and SG90 servo.
- Programmed motor control logic in **C/C++** for forward, reverse, and turning maneuvers.
- Powered system with dual LiPo batteries and optimized 5V distribution using buck converters.

### **Safe Security System** | Personal Project

*August 2025 - Oct 2025*

- Built an Arduino Uno-based smart home security system with password entry, motion sensing, and LCD display.
- PIR Sensor, keypad, and buzzer components; optimized low-power operation using sleep modes.
- Designed system wiring on a mini breadboard with power regulated through a buck converter.

## EXTRACURRICULAR ACTIVITIES

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### **WeBots(Western Robotics Club)**

*Sept 2025 - Present*

- Developed and tested robotic control systems using sensor feedback to optimize performance.
- Implemented PID and other control algorithms for precise autonomous robot motion.
- Integrated hardware and software systems, ensuring reliable operation in real-world testing.

### **Western Aero Design**

*Sept 2025 - Present*

- Designed and integrated electrical systems for competitive aircraft projects.
- Designed PCB layouts for avionics subsystems and ensured signal integrity for flight control.
- Collaborated with multidisciplinary teams to ensure system functionality and safety compliance.

## SKILLS

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**Programming Languages:** Python, C/C++, Matlab, Java, JavaScript, HTML, CSS

**Skills:** PowerPoint, Microsoft Visual Studio Code, Embedded Systems, Soldering, Arduino circuits, Fusion 360, 3-D printing