

Akash Kothari

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Applied Science in Computer Engineering (Co-op)

EXPERIENCE

Software Engineering Intern

Jun. 2025 – Sep. 2025

Tripleview Technologies

Mississauga, ON

- Automated retrieval of Microsoft Teams call recordings using **Azure**, **Microsoft Graph**, and **C#**, reducing manual labour by **10+ hours per week** for customer support teams.
- Implemented webhook triggers, polling logic, and **AI-powered** summarization pipelines that streamlined transcript processing and improved response time.
- Integrated results into **Zendesk**, creating structured tickets with detailed summaries that cut agent writing time and reduced miscommunication.
- Owned the full development cycle including design, coding, deployment, and monitoring, delivering production-ready features now being expanded into broader internal tooling.

Volunteer Research Assistant

Jun. 2025 – Sep. 2025

WatIMake, University of Waterloo

Waterloo, ON

- Supported experiments in **PID control** systems using **Python** on a **Raspberry Pi** with motors and sensors.
- Contributed to the development of lab modules aimed at teaching control systems and robotics to third years.

Firmware Developer

Sep. 2025 – Present

Electrium Mobility Design Team

Waterloo, ON

- Contributing to firmware integration for an **electric mid-bike conversion kit**.
- Collaborating across electrical, mechanical, and firmware teams to prototype and test embedded systems.

Associate Consultant

Sep. 2025 – Present

ACE Consulting Group

Waterloo, ON

- Collaborating with a team of associates and directors to support client projects through market research, data analysis, and strategic recommendations.
- Assisting with client outreach and presentations, developing communication skills in professional settings.
- Contributing to marketing initiatives and cross-functional project teams to deliver value across industries.

Lead Math Instructor

Sep. 2023 – Sep. 2025

Mathnasium of Lakeview

Mississauga, ON

- Tutored 12–15 high school students in **advanced algebra**, **calculus**, and problem-solving.
- Mentored new instructors and supported administrative tasks to improve team efficiency.

PROJECTS

FingerPointer | C++, MPU6050, ESP32, Circuit Design

Apr. 2025 – Jun. 2025

- Built a wearable pointer device with motion tracking and gesture recognition using an ESP32 + MPU6050.
- Developed firmware in Arduino C++ and designed custom power circuitry for portability.
- Explored potential accessibility applications for alternative input methods.

Self-Balancing Robot | PID Control, Arduino, Hardware Prototyping

Sep. 2024 – Jan. 2025

- Built a two-wheel robot using an MPU6050 gyroscope + accelerometer for real-time balance.
- Implemented and tuned a PID controller in Arduino to stabilize motion and minimize oscillations.
- Designed and assembled a custom polycarbonate frame for structural stability.

TECHNICAL SKILLS

Languages: Python, C/C++ (Arduino), Java, C#, JavaScript (ES6+), HTML/CSS, SQL

Frameworks & Platforms: React, Node.js, Unity, Azure, Microsoft Graph API

Developer Tools: Git, VS Code, Arduino IDE

Microcontroller Libraries: BleMouse, MPU6050_light

Hardware & Electronics: Arduino, Raspberry Pi, ESP32, MPU6050 IMU, Motor Drivers, PID Control Systems