# Yasar Idikut

↑ yasar.idikut.cc | in linkedin.com/in/yidikut | ✓ yasar@idikut.cc

#### EDUCATION

## Worcester Polytechnic Institute, Worcester, MA

May 2026

Master of Science, Robotics Engineering | GPA 3.8/4.0 Research: High-Order Control Barrier Functions for Quadcopters

# Worcester Polytechnic Institute, Worcester, MA

May 2024

Bachelor of Science, Computer Science & Robotics Engineering | GPA 3.7/4.0 Thesis: Multi-Robot Persistent Coverage Under Fuel and Stochastic Failure Constraints, see

## SKILLS

Programming/Frameworks: Python, Go, Rust, Java, C/C++, PyTorch, OpenCV, ROS

Cloud/DevOps/Testing: Docker, Kubernetes, Ansible, Terraform, Jenkins, GitHub Actions, AWS, Pytest

## EXPERIENCE

## Otuken Software Company USA LLC, Remote

Jun 2024 - Aug 2025

Freelance Software Engineer in Cloud, Computer Vision, and Embedded Software

- Delivered a custom web application to accurately predict multi-copter flight time (90%+ accuracy) using thrust and battery data, enabling data-driven decision-making for deployment strategy.
- Developed a **suite of calibration tools** for zoom-enabled PTZ cameras, facilitating precise intrinsic and extrinsic parameter estimation across varying zoom levels, significantly improving the 3D projection errors.
- Designed and deployed an on-premises Git server infrastructure, and created CI/CD pipelines to automate the build process for various embedded projects, resulting in **faster new firmware retrieval** across teams.

## Worcester Polytechnic Institute, Worcester, MA

Oct 2022 - Sep 2023

Teaching Assistant for Computer Networks and Systems Programming Concepts

• Worked with students to **troubleshoot** their coding problems, **assisted** with answering students' questions, and contributed to grading for the 2000 / 3000 level CS courses.

## Bose Corporation, Framingham, MA

Jun 2023 - Aug 2023

Cloud Software Engineering Intern

- Designed and developed a **flexible functional integration testing infrastructure** for an **internal project involving multiple teams**, incorporating **signal mechanisms** to simulate real-world scenarios.
- Enhanced the developer experience by streamlining local testing and component development.
- Integrated mock testing into the CI/CD pipeline in partial automation of the validation processes.

## CodaMetrix, Inc., Remote

Jun 2022 - Aug 2022

DevOps Engineering Intern

- Automated the toggling of deployment resources by utilizing **Ansible** and **Terraform** and an integration in Jenkins to save 15-20 minutes of manual process for each deployment.
- Enhanced Slack messaging integration within **Jenkins** to facilitate ChatOps, ensuring developers stay informed about a job' progress, consequently halving wait times in the event of errors in the earlier phases.
- Developed a **custom Datadog agent in Go** and created an alert hook to improve observability.

## OPEN SOURCE

WireGuard VPN Management Tool: wg-quickrs, For more details, see •

Jun 2025 - Current

- Built a Rust-based WireGuard configuration management tool with a secure web API/frontend.
- Streamlined **cross-platform** firewall and installation procedures using **bare-metal static binaries** and **dockerized deployment** options with automated CI/CD pipelines on **GitHub Actions**.