

# DIEGO FERNANDEZ

Autonomy and Robotics master’s student at UIUC with hands on project experience in ROS, motion planning and control systems. Proven quick learner and problem solver with professional leadership experience.

## EDUCATION

### University of Illinois Urbana-Champaign

Master’s in Autonomy & Robotics | Full time - Graduating Aug 2025

Projects:

- Stanley + PID control of an autonomous vehicle using ROS and Python
- Racing line optimization and MPC lateral control at dynamic limits on an autonomous vehicle
- Preliminary work on Adaptive MPC for a variable load mass forklift system
- VGG style transfer image augmentation for training an adverse weather object detection YOLO model

### Tecnológico de Monterrey (ITESM)

Bachelor’s in Mechatronics Engineering | Dec 2020

## WORK EXPERIENCE

### Quality Lead

Google via Qualitest | Jan 2024 - Aug 2024

- Managed quality control projects with successful on-time delivery including QC of Google knowledge panels, Youtube Shorts and Gen-AI answers
- Coordinated creation of documentation and training material across three teams (50+ pages)

### Subject Matter Expert

Google via Qualitest | Mar 2022 - Jan 2024

- Technical expert in triaging and remediation of Google Knowledge Graph, providing guidance and support to a 15 person team
- Led four 3-10 person pilot projects unblocking 20+ feature launches
- Coordinated and delivered hands on training for new and existing employees (personally onboarded 30+ new hires)

### Quality Engineer

Google via Qualitest | Feb 2021 - Mar 2022

- Top performer in triaging and remediation of Google Knowledge Graph, earning company wide excellence award
- Javascript automation of template creation and filing, email reminders, and project status tracking

### PowerApps Developer

Tecnológico de Monterrey | May 2019 - Jul 2020

- Delivered rapid prototyping of UX centered mobile apps and scripts for administrative task automation

## CONTACT



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## LANGUAGES

Fluent: English | Spanish | Portuguese

Professional: French

Basic: German

## SKILLS

### Programming:

Python | C++ | Java | Javascript | Ladder logic

### Robotics:

Computer Control theory | Motion Planning algorithms | Optimization | Computer Vision | Version control

### Tools and Frameworks:

ROS | Gazebo | OpenCV | Pytorch | Labview | Solidworks | MATLAB | SIMULINK | Git | GitHub | Selenium | PowerApps & Power Automate

## RELEVANT COURSEWORK AND CERTIFICATIONS

### UIUC:

Adv. Computational Topics in Robotics

Adv. Computer Control

Autonomous Vehicle System Engineering

Deep Learning for Computer Vision

Interactive Haptic Systems

### Other:

Universal Robots e-Series & e-Series Pro

Solidworks CSWA

Agile Crash Course: Agile Project Management; Agile Delivery

Leadership: Practical Leadership Skills

Python ZTM Bootcamp

Selenium WebDriver with Java