

# Diego Fernandez

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## EDUCATION

### University of Illinois Urbana-Champaign

Full time - Graduating Aug 2025

Master's in Autonomy & Robotics

- Racing line trajectory optimization at dynamic limits on an autonomous vehicle
- Stanley + PID control of an autonomous vehicle using ROS and Python
- 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
- Human Centered Design of an active wheelchair cushion for pressure injury avoidance with soft robotics

### Tecnológico de Monterrey (ITESM)

Dec 2020

Bachelor's in Mechatronics Engineering

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## SKILLS

Modern/Classical control theory

Computer Vision with deep learning

Version control

Kinodynamic Motion Planning

Agile/Scrum Project Management

Debugging

Optimization

Staff training/onboarding/mentoring

QA manual/automation testing

## PROGRAMMING

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

## TOOLS AND FRAMEWORKS

ROS | Gazebo | OpenCV | Pytorch | Labview | Solidworks | MATLAB | SIMULINK | Git | GitHub | FluidSIM | CODESYS | Selenium |

PowerApps & Power Automate

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## PROFESSIONAL EXPERIENCE

### Google via Qualitest

#### Quality Lead

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 (15+ documents)

#### Subject Matter Expert

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

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

### Tecnológico de Monterrey

#### Powerapps Developer

May 2019 - Jul 2020

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

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## 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