Diego Fernandez

+1 (217) 693 1846 | d.fernandezsantoyo@gmail.com
linkedin.com/in/diego-fernandez-s/
github.com/diegoasfmravpp

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

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