INGRID NAVARRO

% navarrs.github.io

github.com/navarrs

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WORK EXPERIENCE

Robotics Software Engineer

Stealth Mode Startup

- m Dic 2019 Aug 2019
- Implementation of a collision detection framework for a robot manipulator.
- Worked with algorithms and simulations for Hand-Eye calibration and point cloud acquisition and analysis.

Computer Vision Engineer

X-LAB Protexa R&D

m Dic 2018 - July 2019

Project 1: Prototyped a visual inspection system to find and classify paint defects on car components using Deep Learning models.

Project 2: Research and development of the computer vision software for an autonomous warehouse robot using ROS.

Computer Vision Intern

Carbon Robotics

July 2019 - September 2019

 Design of a scheme to evaluate the accuracy of a camera calibration system using a motion tracking system and image plane detection techniques.

RESEARCH

Robotics Institute Summer Scholar

Carnegie Mellon University

H June 2018 - Aug 2018

USA

Research on semantic segmentation of 3D point clouds from low-end sensors using Deep Learning and plane-fitting techniques.

Robotics Institute Summer Scholar

Carnegie Mellon University

USA

Research on Deep Learning-based object detection systems to perform wheelchair detection in cluttered environments.

MAIN PROJECTS

Perception System of Autonomous Boat

Tecnológico de Monterrey

• México

Lead the research and development of the vision system of an autonomous boat that was built for the International RoboBoat Competition hosted by RoboNation.

- Used Deep Learning to perform obstacle detection on the water.
- Used Computer Vision algorithms in OpenCV to perform object tracking and path planning.

Smart Jacket

Omius Robotic Clothing and Tecnológico de Monterrey

🛗 Dic 2016 - May 2017

México

Participated in the design of a jacket that helps regulate body temperature based on the physical activity of a person and the environment conditions.

EDUCATION

B.S. in Digital Systems

Tecnológico de Monterrey, México

Aug 2014 - May 2019

Computer Engineering Exchange Student École Polytechnique de Montréal, Canada

math Aug 2017 - Dic 2017

CERTIFICATIONS

Robotics Software Engineer
Udacity Nanodegree (April 2020)

Neural Networks

DeepLearning.ai at Coursera (Jan 2018)

O Machine Learning
Stanford at Coursera (Oct 2017)

ACHIEVEMENTS

Top student of the School of EngineeringTecnológico de Monterrey (Apr 2018)

RoboCup Platform Soccer League Competition, 1st place.

Mexican Robotics Tournament (Mar 2018)

Emerging Leaders in the Americas Program (ELAP) Scholarship Recipient
Government of Canada (Aug 2017)

Hackathon MTY, Junior Category, 1st Place Major League Hacking (Mar 2016)

TECHNICAL SKILLS



LANGUAGES

Spanish French English

INTERESTS

Robotics Computer Vision

Deep Learning Machine Learning

Operating Systems