

# Ingrid Navarro

navarrs.github.io   github.com/navarrs   linkedin.com/in/ingridnavarroan

## WORK EXPERIENCE

### Computer Vision Engineer

Stealth Mode Startup

Dic 2019 – present

### Computer Vision Engineer

X-LAB Protexa R&D

Dic 2018 – present Monterrey NL, México

Prototyped a visual inspection system to find and classify paint defects on vehicle components using neural networks.

- Achieved 90% defect classification precision.

### Computer Vision Intern

Carbon Robotics

July 2019 – September 2019 Guadalajara, México

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

June 2018 – Aug 2018 Pittsburgh PA, 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

June 2017 – Aug 2017 Pittsburgh PA, 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

Jan 2018 – May 2019 Monterrey NL

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 Monterrey NL, 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

Aug 2017 – Dic 2017

## CERTIFICATIONS

Robotics Software Engineer  
Udacity Nanodegree (In progress)

Neural Networks  
DeepLearning.ai, Coursera (Jan 2018)

Machine Learning  
Stanford, Coursera (Oct 2017)

## ACHIEVEMENTS

Top student of the School of Engineering  
Tecnológico 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

C / C++ Python  
OpenCV Tensorflow ROS Git  
Bitbucket Jira  
Linux Windows

## LANGUAGES

Spanish French English

## INTERESTS

Software Development  
Computer Vision Deep Learning  
Machine Learning Operating Systems  
Robotics