

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.

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

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

VTK

ROS

Tensorflow

Keras

Protobuf

OpenRAVE

Git

Bitbucket

Jira

Ubuntu

Windows

LANGUAGES

Spanish

French

English

INTERESTS

Robotics

Computer Vision

Software Development

Deep Learning

Machine Learning

Operating Systems