AI ENGINEER

Eduardo Francisco Sánchez Ocampo

eduardosanchez270698

EduardoSanchez

+52 833 235 07 46

Eduardo.Sanchez@cinvestav.mx

Profile.

Professional focus on design of intelligent algorithms based on artificial intelligence, my main applications rely on perception and control of robots. Due to the exponential growth of the industry, I am an adaptive individual with the ability to solve problems and make new creative products.

Work Experience.

CINVESTAV-IPN / Intel Corporation 5/2021 - Present
Research Assitant

- Implementation of perception algorithms for obstacle detection using YOLO.v7 architecture and OpenCV.
- Motion planning for a bipedal robot based on deep reinforcement learning using Python, ROS environment and PyTorch, reducing 70% of computing.

Grupo SAC 7/2019 - 3/2021
Technical Support in Wireless link Media

- Preventive and corrective maintenance of PEMEX microwave stations.
- Monitoring of rectified voltage reading.

Education.

CINVESTAV-IPN Unidad Guadalajara 7/2021 - 7/2023
Master of Science in Electrical Engineering
Thesis: Deep Reinforcement Learning for Bipedal Motion Planning in Autonomous Navigation.

Universidad Politécnica de Altamira 8/2016 - 1/2020
Electronics and Telecommunication Engineering
Thesis: Particle Swarm Optimization for Adaptive Control in Chemical Process

Soft Skills.

Problem-Solving	Analytical
Self- motivated	Creative

Languages Skills.

Spanish	Native
English	B2 CEFR (High Intermediate)

Technical Skills.

Matlab 2022.a 9.7	4 years	PyTorch	1 year
C/C++ Dev-C++ 5.0	4 years	TensorFlow 2	1 year
Python 2.7- 3	3 years	GitHub	2 years
Bash Shell Script	2 years	Supervised Learning	3 years
ROS 18.04, 20.04	1 year	Reinforcement Learning	2 years
Open CV 4.8	1 year	Robotic Motion Planning	4 year