

Jose Abraham Perez Martínez

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EDUCATION

Tec de Monterrey

GPA 94/100 Expected June 2022

BS. Mechatronics Engineering

- Capstone Senior Project: Developed software architecture and instrumentation of a Jeep Cherokee for use as an autonomous driving research platform *Robot Operative System ROS* Supervised by Ph.D. Carlos Renato Vázquez using a NXPS32K148
- Founder and president of International Robotics Group in my University

Harvard University (Exchange Student)

Sep 2021 – Dec 2021

Computer Science coursework

- Systems Development for Computational Science with Ph.D. Fabian Wermelinger

Universidad de Guadalajara – Oracle Cloud - Devops

March 2022 – July 2022

Certification / Diplomado

- Cloud and Devops (diplomado) taught by Oracle in conjunction with the University of Guadalajara, where Oswaldo Rojas (Global Customer Support) is our main organizer. In the custom labs I have worked with Oracle Cloud, specifically with Databases, Terraform and Kubernetes.

WORK EXPERIENCE

Cloud Software Engineer Intern – Intel Corporation

Dec 2021 – Present

Guadalajara Mexico

- Build infrastructure that allows other software engineers to quickly deploy, run and scale software
- Plan, design, develop, and modify software systems or applications using PEP8 standard
- Do unit test with mocking functions in order to probe specific part of code

Research Intern – Harvard Medical School

Aug 2021 – Jan 2021

Cambridge, MA USA

- Research work in collaboration with Ph.D. Shrike Zhang in lab Zhang lab- Harvard Medical School
- Collaboration for Printing department with 3D printers and Formlabs bio-printer
- Working on designing computer vision algorithm for differences detection of abnormalities Medical Cultures

Cloud Solutions Engineering Intern – Intel Corporation

March 2021 – June 2021

Guadalajara, Mexico

- Characterize performance bottlenecks of Intel Products across Cloud-Service Provider
- Find optimization opportunities in next Gen CPU Architecture
- Scripting and Administration in Linux environments, Ubuntu, CentOS, RHEL using Bash and Python
- Design and implement proxy workload to emulate costumer scenarios used VM's and containers

Modeling and Numerical Simulation Intern – HP Inc

Sep 2020 – February 2021

Guadalajara, Mexico

- Implement local repositories into Docker containers and Jenkins pipelines
- Debug and code C++, Python, and Bash scripts to implement numerical models into 3D printing simulation frameworks
- Predict the physical processes in plastics and metal 3D printing system with Machine Learning

TECHNICAL SKILL

- Python, Bash, Linux/Unix, Docker, Git, Jenkins, Git, Pytest, Data Parsing