**Jose Abraham Perez Martinez**

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| **EDUCATION** |  |
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| **Instituto Tecnológico y de Estudios Superiores 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

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| **Harvard University (Exchange Student)** | Sep 2021 – Dec 2021 |
| Computer Science coursework |

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

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| **WORK EXPERIENCE** |  |
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| **Cloud Software Engineer Intern – Intel Corporation** | Dec 2021 – Present |
| *Software Engineering Intern* | 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

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| *Research Fellow at Harvard Medical School and Brigham & Women’s Hospital* | 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

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| **Cloud Solutions Engineering Intern – Intel Corporation** | March 2021 – June 2021 |
| *Cloud Engineering Intern* | 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

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| **Modeling and Numerical Simulation Intern – HP Inc** | Sep 2020 – February 2021 |
| *Intern Researcher at HP Labs* | 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

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| **CONACYT Undergraduate Researcher – ITESM** | April 2020 – November 2020 |
| *Endorsed by Conacyt as an Undergraduate Researcher* | Guadalajara, Mexico |

* Developed laboratories for Jalisco digital University, laboratories were implemented with Python and node-red
* Implemented host services such as Apache, and Ngrok

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| **Software Robotics Intern – Fluxing Engineering** | Dec 2019 – May 2020 |
| *Software Developer for AGV – Path and Motion planning* | Guadalajara, Mexico |

* Implemented a SLAM algorithm using a Rplidar A1 in ROS and obstacle avoidance
* Used language C, ISR in a NXP S32K144EVB, used of UART, I2C, ADC communications protocols.

**TECHNICAL SKILL**



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