Luis Enrique Preciado Muñiz

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I'm a passionate and motivated individual with a strong interest in programming, automation, and robotics. Nearing the completion of my Robotics Engineering degree, I am seeking a graduate position to further enhance my knowledge and make meaningful contributions to the industry. With over a year of experience as an intern in the automotive industry, I am committed to continuous learning and professional growth. My effective communication skills and active listening enable me to engage with my colleagues' ideas, and my ability to work in a team allows me to contribute effectively to problem-solving and achieving shared goals.

Education

University of Guadalajara   Guadalajara, México
*Master's Degree in Robotics and AI – **CGPA: 9.13***   *January 2020 – June 2024*

University of Guadalajara   Guadalajara, México
*Robotics Engineering – **CGPA: 9.13***   *January 2020 – June 2024*

CETI (Technical and Industrial Teaching Center)   Guadalajara, México
*Automatic Control Technologist – **Percentage: 88%***   *July 2017 – April 2019*

Experience

Software Engineer Intern   August 2023 – July 2024
Robert Bosch México   *Guadalajara, México (Hybrid)*

- Designed and implemented a Python and Rasa framework-based Chatbot to facilitate new developer induction and provide troubleshooting assistance, complete with a local SQL database for response management, a ChatGPT-based model API for enhanced query handling, and Github for version control.
- Automating report generation for fault-mapping between customer defined fault application and ECU's real monitors using Python scripts, leveraging Pandas, Anaconda, and fuzzy logic libraries, to ensure accurate tracking of monitor-fault mappings and to guarantee software quality deliverables.
- Developed scripts to cross-reference client requirements with ECU header files, identifying potential inconsistencies and streamlining the verification process.

Key Metrics: Improved efficiency of deliverables by 40% and enhanced quality of deliverables, reducing inconsistencies by 90%.

Robotics Intern   Mar. 2022 - Sep. 2022
Intelligent Systems Laboratory   *Guadalajara, México*

- Supported the development of research on consensus algorithms for the Turtlebot robot platform and other holonomic robots using motion capture technology, optical tracking (OptiTrack), and ROS drivers on a Linux environment.
- Extensively worked with Linux in the assembly, programming, and testing of UAV units, as well as the implementation of monocular and stereoscopic visual-inertial odometry algorithms focused on indoor flights.
- Performed PCB and circuit design to synchronize measurements from optical and inertial sensors at the hardware level, which was required for the implementation of visual odometry.

Key Metrics: Modified existing ROS/ROS2 C++ drivers in a Linux environment to synchronize visual-inertial measurements and developed new drivers to control holonomic robots and UAV kinematics

Projects

Project name | *Live* | *Github*   React JS, Express, MongoDB, Chakra UI, Stripe

- Give abstract overview of what this project is about and what it does
- Keep **highlighting** the key poitns and include numbers if you can, they help
- Explain about major features of your project, don't write something you didn't make
- **Features:** Search, Rest APIs, Realtime database, High performance, Responsive UI, etc.

Project name | *Live* | *Github*   React JS, Firebase, Tailwind CSS

- Don't overflood your resume with projects, just keep the projects you are proud of and you can explain it in detail to interviewer
- If you have a lot of projects you can try to keep the ones depending on company you are applying to (E commerce for Amazon, Video Streaming for Netflix, etc.)
- **Features:** Search, Rest APIs, Realtime database, High performance, Responsive UI, etc.

Technical Skills

Languages: C/C++, Java, Python, Javascript, Typescript, HTML, CSS
Frameworks: React JS, Next JS, Node, Express JS, FastAPI, Django, Redux, Styled components, Tailwind, Chakra UI
Databases: MongoDB, MySQL, PostgresQL, Firebase firestore, DynamoDB

Coding Profiles

- LeetCode - **username**
- Github - **username**
- HackerRank - **username**

Achievements

- Keep your relevant achievements only

- Don't write about the art competitions you won in school or what was your rank in board exams, no one cares about that

- Add link to your achievements if you have, as a source of proof

- **Highlight** the key points you want the other person to notice

- Don't write that you were CR of your class in achievements, remember you are applying for a software engineering role