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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.

Education

University of Guadalajara — Guadalajara, México
Master's Degree in Machine Learning and AI – ***CGPA: 9.5*** — *January 2025 – Currently*

University of Guadalajara — Guadalajara, México
Robotics Engineering – ***CGPA: 9.8*** — *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: Enhanced quality of deliverables and improved efficiency by 40%, reducing inconsistencies by 90%.

Robotics Intern — Jun. 2022 - Aug. 2023
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

Chat React Component | *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.

Omni-Driver | *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: Python, Javascript, Typescript, HTML, CSS, C/C++
Frameworks: Tensorflow, Pandas, React JS, Next JS, Node, Express JS, FastAPI, Styled components, Tailwind
Databases: SQLite, PostgresQL, Supabase