Jaime Ismael Hernandez Navarro

Guadalajara, Jalisco, Mexico | +52 331 416 1781 | ismael21502@gmail.com

Robotics Engineering student with hands-on experience in software development and AI models. Strong foundation in object-oriented programming, algorithms, and problem-solving. Skilled in building applications with Python and JavaScript, with an eagerness to learn and contribute to scalable and high-performance enterprise AI solutions.

Technical Skills

- **Languages:** Python, C, HTML, JavaScript, SQL, MATLAB
- **Software Development**: Data structures, algorithms, troubleshooting, testing, project reporting
- **AI/ML:** TensorFlow, OpenCV, CNNs, model training and inference
- **Tools:** Git, Flet, ffmpeg
- **Soft Skills:** Agile methodologies, project coordination, cross-functional teamwork

Project Experience

Audio Transcription App (Python, Flet, ffmpeg)

- Designed and implemented a desktop application to convert video to audio and enable precise transcription.
- Built playback controls and .docx export to streamline workflow.
- Applied troubleshooting and testing practices to ensure performance.

Mask Detection System (Python, TensorFlow, OpenCV)

- Trained and deployed a CNN for real-time mask detection through webcam input.
- Evaluated model performance with accuracy and loss metrics.
- Reported results and optimized pipeline for scalability.

Data Logger for the Mundial CanSat 2024 (UNAM) contest (Python, C, Flet)

- Developed software to acquire, process, and store sensor data efficiently.
- Coordinated software integration in a multidisciplinary team.
- Reinforced problem-solving, troubleshooting, and reporting skills under strict deadlines.

Education

B.Sc. Robotics Engineering — Universidad de Guadalajara, Mexico
Aug 2020 – Present | Expected graduation: Aug 2026

Additional

Languages: Spanish (native), English (B2)