

Jesus Soto Gonzalez

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Objective

Aspiring software engineer with a passion for creative solutions, eager to contribute to innovative projects and deliver high-quality software in dynamic environments.

Education

Iowa State University | Ames, IA

Bachelor of Science in Software Engineering

Minor in Artificial Intelligence

GPA: 3.53 | Expected Graduation: December 2025

Des Moines Area Community College | Ankeny, IA

Associates of Applied Science in Diesel Technology

GPA: 3.77 | Graduated: May 2021

Work Experience

Brown National Lease | Iowa Falls, IA | *Certified Diesel Technician* | May 2021 – May 2022

- Diagnosed and repaired complex mechanical systems, applying analytical problem-solving skills.

Iowa Select Farms | Jewell, IA | Maintenance Technician | August 2017 – May 2021

- Developed troubleshooting procedures for equipment failures, enhancing critical thinking and reliability.

Projects

GridAI – Smart Grid Management Web Platform | Personal project.

- Developed a full-stack widget library for real-time smart grid telemetry using React, WebSockets, Kafka, and Firestore.
- Implemented dynamic widget editing, live data streaming, and customizable telemetry controllers.

Fully Autonomous System Development | CprE 288 Embedded Systems Final Project

- Designed and developed a fully autonomous system integrating iRobot Create, Cerebot II board, SONAR, IR sensor, and LCD with autonomous navigation and obstacle avoidance using decision-making algorithms.

Web Application | Computer Science and Software Engineering Club Iowa State University.

- Contributed to designing and developing a web application to enhance club operations, utilizing HTML, CSS, JavaScript, and essential backend technologies to achieve seamless functionality.

Data-Driven Android Application Project | Software Development Practices Course.

- Developed a data-driven application that addressed real-world problems, enhancing skills in software design patterns and collaborative development with Git.

Activities

Cardinal Space Mining Club, *Safety Officer, Member*

Software Engineering and Computer Science Club, *Member*

SHPE Leading Hispanics in STEM, *Member*

Relevant Skills

Programming Languages: C, C++, C#, Python, HTML, CSS, Java, JavaScript, SQL, Bash/Shell Scripting.

Robotics & Automation: ROS2, CANbus, Sensor Integration (LIDAR, SONAR, IR), Motor Control Systems.

Software & Tools: Git, GitHub, GitLab, Visual Studio, IntelliJ, Unity, AutoCAD, Figma, MySQL, AWS, and more.

Frameworks: Node.JS, React, Flask, Unity Framework, Junit, Android SDK, Bootstrap, Tailwind CSS, REST.