ALEJANDRO RAFAEL MORENO ESPINOZA

MECHATRONICS ENGINEER

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○ https://github.com/Rafaelespinoza10 | 🌐 My portfolio | 📍 San Luis Potosi, S.LP.

EDUCATION

Universidad Autonoma de San Luis Potosí | UASLP

Bachelor's in Mechatronics Engineering │ August 2019 - Present (in process of graduation)

EXPERIENCE

Software Engineer Industry 4.0 | Magna International | September 2024- present

- Comprehensive Automation (Angular, .NET, SAP) │ Eliminated manual processes via SAP integration; real-time monitoring.
- Interactive Dashboard (React, Grafana) │ Developed custom plugin displaying hourly operational metrics.
- Dynamic Power BI Reports (SAP) │ Created dynamic reports enhancing strategic operational visibility.
- Predictive Sensor Monitoring (Node.js, Angular, .NET) │ Implemented analytics system reducing downtime through predictive interventions.
- Paint Line Optimization (Angular, .NET) │ Designed app ensuring production consistency by real-time parameter comparison.
- Centralized Quality Dashboard (Angular, .NET) │ Streamlined audits and quality responses with unified alerts platform.
- Automated Attendance System (Angular, .NET) │ Automated attendance registration via electronic IDs, improving administrative accuracy.

Software Engineer & Data Analyst Intern | Peasa Autopartes S.A. de C.V. | January 2024- July 2024

- Data Automation in Human Resources (.NET, MySQL):
- Migrated HR data management completely from spreadsheets to structured databases
- Automated attendance recording system (VBA, Excel):
- Developed a robust system capturing data automatically from multiple sources, analyzing absenteeism.
- Hiring profile prediction using Machine Learning (Python, Excel):
- Trained predictive models to identify optimal hiring profiles, improving recruitment strategies.
- Automated time-tracking system
- Built a lightweight time-tracking tool using Excel and VBA, allowing operators to record operational times with a single click, improving data capture and productivity.

Control Engineering Laboratory Intern | Universidad Autonoma de San Luis Potosi | January 2023 - July 2024

- Programming with Scilab, Octave, and Python for system modeling and control analysis
- Simulation and setup of electronic circuits using engineering instruments
- Problem-solving in control systems through practical applications
- Development of communication and teaching skills by conducting academic sessions

CERTIFICATIONS

- **Angular Pro (New Implementations Angular 19)** │ DevTalles | May 2025│ Certification obtained
- **Angular from Zero to Expert** │ DevTalles │ Octuber 2024 │ Certification obtained
- **Web Development: NestJs, NextJs, ReactJs** │ Udemy │ October 2024 │ Certification obtained
- **React from zero to expert: Hooks and MERN** │ DevTalles│ August 2024 │ Certification obtained
- **Node.js: Web development MVC and Rest API** │ Udemy │ August 2024 │ Certification obtained
- **Modern JavaScript: Web programming** │ Udemy │ May 2024 │ Certification obtained
- **C# Fundamental with Microsoft** │ Microsoft │ May 2024 │ Certification obtained
- **Online Course: Introduction to Deep Learning** │ NVIDIA │ Octuber 2023 │ Certification obtained

SKILLS AND INTEREST

- **Technical:** Angular, ReactJs, NodeJs, NextJs, NestJs, MongoDb, MySQL, MSSQL, Docker, Git, Typescript, JavaScript, PostgresSQL, Python, C++, C#.
- **Languages:** English (conversational), Spanish (Native)
- **Interests:** Mobile Development, Learn French and Machine Learning