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Summary

Electrical Engineer with a bachelor's degree from Colorado State University, experienced in ELV systems, circuit design, and construction projects. Skilled in electrical system development, radar calibration, and programming. Currently involved in large-scale construction projects, applying technical and field expertise to deliver solutions. Known for problem-solving, adaptability, and teamwork.

Education

Bachelor of Science in Electrical Engineering, Colorado State University   **May 2020 - May 2024.**

Work Experience

Electrical Engineer, NESMA UNITED INDUSTRIES.   **Sep 2024 – Present.**

- CCTV System Design & Automation: Designed and implemented CCTV systems with automated monitoring and intelligent analytics for enhanced security.
- Fire Alarm System Engineering: Developed and deployed fire alarm systems with automated detection, alerting, and seamless integration with building safety infrastructure.
- Access Control & Security Automation: Designed and implemented access control systems with automated entry management and remote monitoring capabilities.
- System Optimization & Automation: Developed scalable ELV solutions with automation features to improve efficiency, reliability, and overall performance.

Doppler Weather Radar Calibration, CSU CHILL Center and CHIVO   **Aug 2023 - May 2024.**

- Radar Calibration Expertise: Performed precise calibration of CSU CHIVO Doppler radar, including pre-calculations for reflectivity and alignment of azimuth and elevation angles.
- Data Processing and Visualization: Processed raw radar data using Python and PyArt, creating visualizations for PPI and RHI scans to ensure calibration accuracy.
- Collaborative Experimentation: Partnered with the CSU Drone Center, utilizing UAVs to position calibration targets effectively.
- Technical Research and Application: Integrated concepts like beam patterns and reflectivity variables (DBZ, ZDR, VEL) into practical radar experiments.
- Innovation and Accuracy: Addressed real-world challenges, including environmental interference, and validated results against theoretical models.

Licenses and Certifications

	Year
- Mustashar Accelerator Program, Mustashar Accelerator.	2025
- Project Management in NPO Sector, Misk Skills.	2025
- Certified Associate in Project Management (CAPM) Certification, Project Management Institute.	2024
- Forward Program, McKinsey and Company.	2024

- Certificate Professional Accreditation, Saudi Council of Engineers. 2024
- OSHA 30, National Association of Safety Professionals. 2024
- Introduction to Modern AI, Cisco Networking Academy. 2024
- BSF Intro to Financial Sustainability, Udacity. 2024

Projects

Food Classification Using Convolutional Neural Networks   **Jan 2024 – May 2024.**

- Enhanced Machine Learning Expertise.
- Practical Application of AI in Real-World Scenarios.

Sunrise Alarm   **Aug 2022 – Dec 2022.**

- Hands-On Microcontroller Experience.
- Creative Problem-Solving.

Memberships

- Saudi Council of Engineers – Member   **Sep 2024** – **Present**.
- Engineers for a Sustainable World – Member   **Jan 2025** – **Present**.
- Saudi Youth for Sustainability (SYS) – Changemaker   **Mar 2025** – **Present**.

Software Skills

MS Office, C, C++, MATLAB, Python, Circuit Simulation with Cadence, Data Analysis, Technical Documentation, Project Management, Digital Signal Processing.

Hardware Skills

Electrical Circuit Design, Doppler Weather Radar Calibration, Microcontrollers, FPGA Programming, Electronics Troubleshooting, Communication Systems.

Languages

- Arabic (Native).
- English (Fluent).