Rodolfo González Parra (Rudy)

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EDUCATION

Central New Mexico Community College- Albuquerque, NM

Associate of **Computer Information Systems** concentration in Network Administration **Granted December 2023**

3.5 GPA

Relevant Courses: Introduction to Competitive Robotics, IT Essentials Hardware, IT Essentials Software, Network Topology/Cisco Academy I, Internet of Things (IOT), Technical Communications, Linux Essentials, NET RTG & SW/Cisco Academy SEM II, ENT NET & Auto/CIS Acad SEM III, Fundamentals Network Security, Survey/Engineering Fields, AutoCAD, Python, C++ Programming, Network Essentials, Chemistry, Semiconductor apprentice

Math Level: College Algebra, Trigonometry, Pre-Calculus, Calculus I

Certificates:

CCNAv7: Introduction to Networks	Granted April 2022
Certificate of General Studies	Granted May 2022
Associate of Applied Science in Integrated Studies	Granted May 2022
CCNA: Switching, Routing, and Wireless Essentials	Granted August 2022

Portfolio Links:

LinkedIn Hackster.io GitHub

SKILLS

- Network Access Connectivity & Security Fundamentals
- IP Services, Connectivity, Subnetting & Routing, IPv4 and IPv6 Addressing
- AutoCAD, Graphic Design & 3D Printing.
- Knowledgeable in basic computer configurations, such as Dell, HP, & Mac Systems
- Experience in IT Essentials Hardware & Software
- Switching Protocols
- Differential Scanning Calorimeter Instrument Operator (DSC
- Raman Spectrometer Instrument Operator
- X-ray Absorption Spectrometer Instrument Operator
- Integrates Sunlight Spectrometer Instrument Operator (ISS)
- Robotic Engineering & Rapid Prototype Development
- Python, C++, Linux & MATLAB Coding
- Data Analytics
- Complex Schematic Diagram Drawings
- Integrates Circuit Fabrication
- Electrical equipment troubleshooting, repair, installation & maintenance.
- Semiconductor experience
- Implementing laboratory procedures increasing production and stoichiometric accuracy.
- Atomic Physics manipulations
- Worked in diversified team environment with multi-tasking.

RELEVANT WORK EXPERIENCE

Laboratory Operations Coordinator / IoT Developer **September 9, 2024 – Present**

GridFlow - Albuquerque, NM

- Lead the setup of GridFlow's R&D lab, optimizing it for production manufacturing.
- Oversee the installation and integration of IoT technologies for data collection and laboratory automation.
- Develop and enforce laboratory safety protocols, especially concerning nitrogen and argon tanks and vacuum-assisted closures (VACs).
- Manage lab equipment, including IoT sensors and devices for real-time monitoring and data analysis.
- Collaborate with the engineering team to ensure the lab meets the technical requirements for battery research, testing, and production.
- Provide guidance and training to junior staff and interns on lab procedures and safety measures.
- Ensure compliance with all regulatory and safety standards within the lab environment.
- Assist with research initiatives and support the R&D team in conducting experiments and scaling up production.

Technology Consultant and Software Developer **April 2024 – September 2024**

Telemetry Insight - Albuquerque, NM

- Developed and maintained the Well Watcher Code, essential for monitoring well controllers and telemetry systems in real time.
- Managed and optimized energy consumption and anomaly detection algorithms for well controllers to improve operational efficiency.
- Conducted research and implemented mobile application features for remote monitoring and management of industrial equipment.
- Developed AI-driven anomaly detection and real-time equipment health monitoring systems, enhancing predictive maintenance capabilities.

- Tested and implemented various functions related to BLE (Bluetooth Low Energy) technology, including monitoring Tx Power settings to evaluate battery life and power consumption impact.
- Led software testing for new features, ensuring reliability and efficiency of well controllers.
- Analyzed and reviewed daily telemetry reports on WC timers to identify potential issues, such as frequent resets and anomalies in uptime.
- Collaborated with the engineering team to review and enhance the company's digital solutions, providing technical insights and recommendations.
- Provided frequent updates to support teams through Slack and email channels to ensure smooth operations and quick troubleshooting.

RELEVANT ACADEMIC EXPERIENCE

Deep Dive IoT Program **October 2023 – December 2023**
CNM Ingenuity STEMulus Center

- Cumulative 400+ hours of software and hardware curriculum, rapid prototyping.
- Expertise developed in coding smart devices in C++.
- Deep understanding of electronic circuits, soldering, and complex software's.
- Access to state-of-the-art fabrication equipment, along with complex instrumental fabrication machinery.
- Comprehensive training encompasses factory and laboratory automations.
- Acquired skill sets for semiconductors and clean room operations.

Glass Physics Researcher/ Lead Researcher and Team Leader **May 2023-August 2023**
University of Coe College- Cedar Rapids, Iowa

- Led a team of researchers in completing four extensive complex projects under Dr. Steve Feller's supervision.
- Implemented new laboratory procedures across all departments increasing production & stoichiometric accuracy.
- Conducted in-depth examinations and production of innovative glass compositions using various compounds.
- Assessed diverse glass properties, including density and conductivity.
- Operated advanced laboratory instruments, including furnaces and spectrometers.
- Utilized spreadsheet applications for data analysis and recording.
- Maintained meticulous research records.
- Contributed to research papers, presentations & publishing.
- Presented research findings at the Iowa Glass Conference.

Image Creation Developer Operations Team **January 2023-May 2023**
Lockheed Martin- Remote

- Assisted with crucial responsibilities related to image management for both Cloud and On-prem environments.
- OS Image Development: actively participated in the development and troubleshooting of Windows and Linux OS images, gaining hands-on experience in image creation and fine-tuning.
- Participated in Configuration Discussions surrounding purpose-built OS configurations
- Acquired technical proficiency and solid understanding of scripting, TCP/IP networks, and virtualization environments, applying this knowledge to my tasks effectively.

Solar and Space Physics Researcher at the University of Boulder Colorado May 2020-August 2020

- Conducted in-depth analysis of Hα line properties in sun-as-a-star observations to investigate temporal variations.
- Explored magnetic photospheric and chromospheric features on the Hα core-to-wing ratio at the 27-day rotational time-scale.
- Identified that sunspot area predominantly influenced Hα line shape, while faculae and filaments had minimal impact. These findings contribute to our understanding of chromospheric variability in solar-like stars.

RELEVANT ORGANIZATIONS

STEM Core Program **July 2022 – December 2023**

- Participated in a national program focused on advancing stem skills through accelerated coursework and paid internships.
- Collaborated within cohort-based learning communities to enhance proficiency in mathematics, technology, and engineering.
- Received academic support and career guidance, preparing for high-demand roles in technology fields.
- Gained hands-on experience with industry leaders such as Nasa and Lockheed Martin, directly connecting with stem employers for career readiness.

ALRISE Program **January 2022 – Present**

- Participated in a national initiative aimed at increasing Latinx representation in stem through culturally responsive strategies and experiential learning.
- Collaborated with Hispanic serving institutions (hsis) to enhance student retention and completion rates in stem fields.
- Engaged in curriculum development, educator training, and capacity building to foster inclusive environments for Latinx students in stem.
- Contributed to broadening participation by helping to close gaps in Latinx student success and stem career pathways.

REFERENCES

Available upon request.