

Rodolfo Gonzalez Parra

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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

<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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.
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RELEVANT WORK EXPERIENCE

Laboratory Operations Coordinator / IoT Developer	September 9, 2024 – Present
GridFlow - Albuquerque, NM	
<ul style="list-style-type: none">• 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	
<ul style="list-style-type: none">• 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 with BRIAN RASHAP

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.
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Solar and Space Physics Researcher at the University of Boulder Colorado

May 2020-August 2020

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

RELEVANT ACADEMIC EXPERIENCE

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.

Allrise 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.