📞 5079203204

✉ John.Miller@mines.sdsmt.edu

🐙 John-AMiller

📍 Rapid City, SD

John Miller
Mechanical Engineer

RELEVANT EXPERIENCE

Robotics Engineer
ROCKIN Research, Robotics and Kinematics Research at SD Mines

Aug '21 - Present
SDSMT

ROCKIN Research, Robotics and Kinematics Research at SD Mines

- Contributes to the development of innovative solutions by extensively utilizing **ROS**, **ROS2**, **ROS-I,** and **Open-CV** for research purposes
- Conducting extensive robotics research and development to create a cutting-edge prototype for **NASA**
- Utilizes **OpenAI** technology to optimize robot operations and improve efficiency
- Demonstrates proficiency in programming **PLC's** using Siemens software to ensure efficient automation processes in industrial robots

Field Technician
American Engineering Testing

May '23 - Aug '23
Sheridan, WY

American Engineering Testing

- Conducted concrete and soil density testing to assess quality and compaction levels
- Operated a Nuclear Density Gauge to accurately measure soil density
- Ensured adherence to project specifications by closely monitoring and maintaining required standards

KEY SKILLS

- Teamwork
- Fluent Spanish
- Critical Thinking
- Problem Solving
- Linux (Ubuntu)
- Software Debugging
- Automation
- AutoCAD (Solid Works, Inventor, PSpice, Eagle)
- PYTHON, C++, MATLAB, JULIA, VS CODE
- Machine Learning
- ROS, ROS2, ROS-I, OpenAI

EDUCATION

Bachelor of Science in Mechanical Engineering
South Dakota School of Mines and Technology

Aug '21 - Present
SDSMT

Minors in Systems Engineering, Computer Science, and Mathematics with a focus on Computational Analysis

High School Diploma
Luverne High School

Sep '17 - Jun '21