

# Grubby Hardrocker

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## Profile

Chemical Engineering student capable of working independently with minimum supervision and committed to providing high quality service to every project. Focused on attaining experience in health, safety, and mitigating environmental issues. Professional, capable, and motivated individual who consistently performs in challenging environments.

## Education

B.S. Chemical Engineering, Expected: May 2025  
**South Dakota School of Mines and Technology (SDSM&T), GPA 3.55**

## Experience

### **Engineering Co-op:**

May – Dec 2023

Cargill, Spiritwood, ND

- Designed piping and water purification system for sub-compartment humidification
- Tested sub-compartment humidification system
- Assisted in daily process problem solving and with process optimization projects

### **Research Assistant:**

May – Aug 2022

SDSM&T Chemical Engineering Department, Rapid City, SD

- Assisted professor with research on optimizing the process for using wood biomass to produce ethanol
- Conducted analysis of samples and recorded data utilizing MS Excel

### **Office Assistant:**

Sep 2021 – May 2021

SDSM&T Chemical Engineering Department, Rapid City, SD

- Answered phones and filed office documents
- Prepared packets for campus visits by prospective students and their parents

## Relevant Projects

### **Sub-Compartment Humidification, Cargill, Spiritwood, ND**

- Designed a \$300,000 piping and water purification system for sub-compartment humidification at a Cargill malt production facility
- Presented recommendations to plant management and corporate officials which were approved

### **Alternative Fuel Vehicle, SDSM&T, Rapid City, SD**

- Member of team focused on running and maintaining a hydrogen-powered fuel cell for a one-passenger car to compete at a national student competition
- Lead non-chemical engineering team members in optimizing fuel cell

## Relevant Skills

- Visotec
- AutoCAD
- EES
- Aspen Plus
- Visual Basic
- MatLab

## Professional Development

- American Institute of Chemical Engineers (AIChE) Sept. 2021 – present
- Society of Women Engineers, Treasurer Sept. 2022 – present
- Alpha Omega Epsilon (AOE) Professional Engineering Sorority Sept. 2021 – present
- Student Association, Junior Senator July 2023– July 2024