

ELIAS SEID

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EDUCATION

Bachelor of Science in Mechanical Engineering

Minnesota State University, Mankato, MN

Expected June 2027

GPA: 3.70

Relevant Coursework: Statics, Dynamics, Mechanics of Materials, Thermodynamics, Fluid Mechanics, Heat Transfer, Manufacturing Processes, GD&T, CAD Design, Electric Circuits, Linear Systems, Automatic Controls, Applied Robotic Systems, Instrumentation, Experimentation I&II, Machine Design

TECHNICAL SKILLS

Software: Creo, Autodesk Fusion, AutoCAD, MATLAB, Simulink, LabVIEW, Microsoft Office

Manufacturing: Lathe, Milling Machine, MIG Welding, Soldering, Tensile Testing, Fatigue Testing, 3D Printing

Measurement: Micrometer, Calipers, Gauge Blocks, CMM

Engineering: CAD Modeling, Data Analysis, Finite Element Analysis, Prototyping, Technical Drawings, Technical Writings

PROJECTS

Distance-Based Motor Control System (myRIO + LabVIEW)

- Developed feedback control system integrating DC motor and ultrasonic sensor
- Implemented real-time motor speed control based on distance
- Added safety cutoff feature to prevent collisions

GD&T, CMM, and Creo Modeling Project

- Used CMM inspection data to evaluate dimensional accuracy and geometric tolerances
- Applied ISO H11/c11 tolerance standards to determine internal and external dimension tolerances
- Created Creo parts and engineering drawings with limit dimensions, datum references, geometric tolerance symbols, and feature control frames
- Analyzed form, orientation, and true-position tolerances, including MMC modifiers for axis orientation and position tolerance

Arduino Light-Following Robot

- Designed and built autonomous robot using sensors and DC motors
- Programmed control logic for real-time light tracking
- Improved performance through debugging and testing

Two-Player Arduino Reaction Game

- Designed and programmed interactive reaction-time game using push buttons, LEDs, servo motor, and 16x2 LCD display
- Implemented random start timing, player-ready logic, reaction-time measurement, and winner detection
- Integrated servo pointer and victory motion to provide visual feedback for the winning player

Vehicle Suspension Modeling System (MATLAB/Simulink)

- Modeled suspension system and simulated dynamic response
- Analyzed damping performance and validated system behavior

EXPERIENCE

Manufacturing Technician - Internship

Polar Semiconductor

Jun 2025 – Aug 2025

- Operated semiconductor equipment
- Recorded process data and assisted in troubleshooting transport robots.
- Collaborated with engineers to resolve production variances

Delivery Driver (Weekend Job)

Amazon

Jan 2024 – Present

- Delivered packages safely and on time using optimized routes
- Maintained high levels of customer service in fast-paced environments and managed time efficiently

Lab Assistant – Chemistry Lab

Normandale Community College

Aug 2024 – May 2025

- Prepared specimens for testing
- Assisted students with experiments and troubleshooting
- Analyzed experimental data using Excel
- Maintained lab equipment and enforced safety procedures

Crew Member

Border Foods Inc

Jan 2021 – Aug 2022

- Delivered fast and accurate customer service in high-volume environment
- Handled transactions and maintained food safety standards

LEADERSHIP & ACTIVITIES

- Member, ASME
- STEM Outreach Volunteer

AWARDS

- Honors Graduate - Normandale Community College
- Dean's List (Multiple Semesters)