



IAN BERNARD

605.430.1944

lancb2003@gmail.com

ianbernard.com



EDUCATION

SOUTH DAKOTA SCHOOL
OF MINES AND
TECHNOLOGY
2025- Present

BACHELOR'S DEGREE
Mechanical Engineering

MINOR'S
Robotics
Systems Engineering

WESTERN DAKOTA
TECHNICAL COLLEGE
2023-2025

ASSOCIATES OF APPLIED
SCIENCE (OBTAINED)
Architectural & Engineering
Technology

RELEVANT COURSEWORK

Calculus I, II, III

Intro to Mechanical
Engineering

Design for Manufacturing

Statics

Dynamics

Mechanical CAD

3D Mechanical Design

PROFESSIONAL SUMMARY

Sophomore Mechanical Engineering student seeking a Mechanical Engineering Internship to expand technical expertise. Applicant possesses hands-on experience in CAD design, machining, and 3D printing. Skilled in mechanical and architectural drafting, prototyping, and collaborative problem solving. Currently pursuing a B.S. in Mechanical Engineering with minors in Robotics and Systems Engineering at the South Dakota School of Mines and Technology.

PROFESSIONAL EXPERIENCE

TECHNICAL SKILLS

Beginner: Less than 1 Year. | Intermediate: 1 to 2 Years | Advanced: 3 or More Years

- Software and CAD
 - AutoCAD Mechanical Drafting [Advanced]
 - AutoCAD Architectural Drafting [Advanced]
 - Creo3D [Intermediate]
 - Fusion360 [Intermediate]
 - SolidWorks [Intermediate]
 - Civil Drafting [Beginner]
 - Revit [Intermediate]
- Fabrication and Prototyping
 - Machining [Advanced]
 - 3D Printing [Advanced]
- Technical Knowledge
 - Mechanical Print Reading [Advanced]
 - Architectural Print Reading [Intermediate]
 - GD&T [Intermediate]

PROJECTS AND EXPERIENCE

- 3D Printed Projects
 - Designed and fabricated an articulated ring light stand using Creo; applied GD&T; and produced assembly drawings.
 - Created a training arm guard for IV insertion practice; incorporated additive manufacturing techniques to support medical training.
 - Modeled and 3D printed a 3-meter scale hanging sculpture
- CNC Milling Projects
 - Modeled, dimensioned, and machined a Turner Cube; determined milling operations and setups.
 - Designed and manufactured an ABS cribbage board, demonstrating part and assembly drawing skills.
 - Modeled, dimensioned, and machined a benchtop Vise with an emphasis on designing for reparability
- Laser Cutter Projects
 - Developed a custom laser-cut coaster set and dice box; applied precision design techniques for aesthetic and functional use.
- Work Experience
 - Olive Garden Server: 2.5 Years