



# IAN BERNARD

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## EDUCATION

SOUTH DAKOTA SCHOOL  
OF MINES AND  
TECHNOLOGY  
2025- Present

BACHELOR'S DEGREE  
Mechanical Engineering

MINORS  
Robotics  
Systems Engineering

WESTERN DAKOTA  
TECHNICAL COLLEGE  
2023-2025

ASSOCIATES OF APPLIED  
SCIENCE  
Architectural & Engineering  
Technology

## RELEVANT COURSEWORK

Calculus I & II

Intro to Mechanical  
Engineering

Design for Manufacturing

Statics

Mechanical CAD

3D Mechanical Design

CAM and CNC  
Technologies

Software Development

## PROFESSIONAL SUMMARY

Freshman Mechanical Engineer with an Associate's Degree, 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 [Beginner]
  - Civil Drafting [Beginner]
  - Revit [Intermediate]
- Fabrication and Prototyping
  - Machining [Intermediate]
  - 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.
- 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.
- Laser Cutter Projects
  - Developed a custom laser-cut coaster set and dice box; applied precision design techniques for aesthetic and functional use.
- Leadership/Management Roles
  - Managed team members within a fast-paced environment.