

Rylend Brunick

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EDUCATION

South Dakota School of Mines and Technology, Rapid City, SD.
BS in Mechanical Engineering, Minor in Systems Engineering

Expected graduation: May 2028
GPA: 3.1/4.0

EXPERIENCE

Masaba Manufacturing, Inc., *Design Engineer Intern*, Vermillion, SD

May–Aug. 2026

- Designed the chassis and component layout for a vibrating-grizzly-feeder crushing plant, satisfying structural, customer, and DOT oversized-load requirements; project contributed \$1.2M in additional quarterly sales.
- Designed and released plant components for a new option-based OEM product line to meet customer requirements.
- Designed a foldable ship ladder for catwalks, improving access while meeting legal transport-width requirements.

Kimberly-Clark, *Manufacturing Engineer Co-Op*, LaGrange, GA

Jan.–Aug. 2025

- Lean Six Sigma Blue Belt project: Redesigned wire tensioning mechanism reducing wire breakage from an average of 3 to 0 times per month, saving approximately \$126K annually in downtime costs.
- Lean Six Sigma Yellow Belt project: Identified and removed a severe burn risk condition during asset maintenance.
- Supported Lead Black Belt project: Managed, operated, and trained employees on a new lamacoid engraver, standardizing durable equipment labeling across the plant.
- Created critical maintenance inspection plant documents and floor layouts for the Boston Dynamics Spot installation team with AutoCAD, utilizing Orbit to adjust the robot's inspection routes.

Masaba Manufacturing, Inc., *Design Engineer Intern*, Vermillion, SD

May–Aug. 2024

- Updated decal drawing and creation method, creating the standard used across all future products released.
- Designed a product packet for a multipart warranty claim and redesigned components based on FEA results.
- Created engineering drawings and models used to manufacture custom equipment for the aggregate industry.

Kopetsky's Ace Bike and Fitness, *Sales Associate / Bicycle Mechanic*, Yankton, SD

2021–2024

- Matched customers with bicycles based on fit and use case, selling 400+ bikes and completing 600+ repairs.
- Trek U guide level certified, SRAM certified, Shimano certified.

LEADERSHIP AND ACTIVITIES

Baja SAE: Brakes Lead

2026–Present

- Leading brake-system design through analytical model verification and brake-check validation, custom rear-caliper design and manufacturing, targeted 30% cost reduction, and driver-fatigue testing using electromyography.

Rapid Prototyping Mentor

2025–Present

- Manage the 3D-printing and mechatronics lab space, supporting student prototyping and design iterations.

Baja SAE: Ergonomics Lead

2025–2026

- Achieved 9/10 design score at the 2026 NY competition, overall design score tied for 11th out of 102 teams.

University Orchestra

2023–Present

- Second-chair cellist, String Theory honors ensemble member.

SKILLS

- CAD Software:** SolidWorks, Autodesk Inventor (utilizing Vault / iLogic), AutoCAD
- CAE Software:** Ansys FEA / Fluids, SolidWorks FEA, Inventor FEA, MATLAB, BeamPro
- Data Analysis / Management:** Excel, PI Vision, Boston Dynamics Orbit, Noraxon electromyography
- CAM Applications:** Torch Mate, Engrave Lab, Orca Slicer, Prusa Slicer, Fusion 360
- Engineering Methods:** Verification / validation, requirement development, project management, prototyping, CAD, FEA, CFD, analytical & numerical solving, beam analysis, FMEA, Lean Six Sigma, human-centered design.