

ROYCE BENDURE

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Sarasota, FL | Blacksburg, VA

EDUCATION

Virginia Tech

Blacksburg, VA

GPA: 3.55 / 4.00 | Dean's List | B.S. in Mechanical Engineering | Expected Graduation June 2028 *Aug. 2024 – Present*

Relevant Coursework: Mechanical Vibrations, Fluid Mechanics, Heat and Mass Transfer, Electrical Theory, Controls

EXPERIENCE

Ingersoll Rand Inc. | Fortune 500 global leader in industrial air compressors and flow-creation systems

Quincy, IL

Compressor Systems R&D Engineering Intern

Summer 2026

- Led a global part-rationalization analysis following factory consolidation, assessing component interchangeability through engineering drawing review, application analysis, and sourcing evaluation; identified \$700K in potential savings, including \$100K in near-term opportunities.
- Led prototype validation for a 20-unit field evaluation program, developing standardized test procedures across thermal, vibration, and ISO 3744 acoustic standards to verify CSA compliance and communicate performance metrics to project stakeholders.
- Engineered an automated data-integration pipeline connecting Windchill PLM and SAP ERP, eliminating manual attribute entry, reducing cross-functional data-transfer errors, and accelerating engineering-to-manufacturing handoffs.

Andersen Corporation | \$3B leader in premium windows and doors

Luray, VA

Manufacturing Engineering Intern

Summer 2025

- Engineered and commissioned an automated pneumatic blow-off system for a C.R. Onsrud CNC router, boosting throughput by 17% (20+ doors/shift) while reducing scrap rates and operator physical load.
- Spearheaded design, machining, and MIG-welded fabrication of a custom pneumatic tilt table via Autodesk Inventor, supporting 500+ daily cycles for 1,000-lb panels and eliminating critical ergonomic risks.
- Implemented a chip-guarding system for a Schelling saw, reducing component wear and extending service life by 40%, saving approximately \$15,000 annually, plus minimizing downtime costs.

Science Wiz | Interactive STEM education workshops for K-8 students

Atlanta, GA

Science Instructor

Summers 2022, 2023, 2024

- Delivered interactive STEM curricula across Greater Atlanta, adapting technical concepts to diverse student groups and achieving the company's highest summer rebooking rate (2024) through client relationship management.
- Managed end-to-end program operations, handling multi-site logistical coordination, material supply chains, technical equipment setup, and parent/client communications across partner locations.

PROJECTS AND ACTIVITIES

SpeakEasy LLC, Virginia Tech Apex Incubator

Sep. 2025 – Present

- Directed go-to-market outreach and customer discovery for an AI presentation platform, growing active user base to 250+ through targeted campus campaigns and product demonstrations.

NASA Student Launch, Virginia Tech

Aug. 2026 – Present

- Served on the design validation team for Virginia Tech's NASA Student Launch team, developing and executing component-level testing and validation procedures to verify rocket subsystem performance against design requirements.

SKILLS AND INTERESTS

- **Design, Modeling & Simulation:** Inventor, SolidWorks, Fusion 360, Ansys FEA, Matlab, Python, PLCs (Allen-Bradley)
- **Fabrication & Manufacturing:** MIG/Stick Welding, CNC Machining, 3D Printing, GD&T, Lean Manufacturing
- **Commercial & Business Methods:** Technical Presentations, Value Engineering, Sourcing & Cost Analysis, PLM/ERP
- **Personal Interests:** Golf, Tennis, Motorsports, VT Fly Fishing Club, Weight Training