Kordian Cebulla

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EDUCATION

Bachelor of Science, Mechanical Engineering (BSME) **August 2022 - December 2026**
Montana State University, Bozeman, MT **3.62 GPA**
Certificate in CNC Machining **August 2021 - May 2022**
Montana State University, Bozeman, MT **3.61 GPA**
Awards: Dean's List - Fall 2021, Spring 2024, Fall 2024

TECHNICAL SKILLS

Data Analysis and Statistics: Minitab, Excel
Design and Modeling Tools: SOLIDWORKS, Fusion 360, MATLAB
Programming/Software: Python, C++/Arduino, Microsoft Office, LabVIEW, HTML/CSS
Engineering: Robotics, 3D Printing, Soldering, CNC Milling/Turning, Problem Solving, Project Management
Language: English (Native Language), Polish (fluent)

PROFESSIONAL EXPERIENCE

Advanced Innovation, Inc., Belgrade, MT, CNC Machinist **March 2022 - Present**

- Operate and program up to 8 CNC mills simultaneously to manufacture precision components within tight tolerances.
- Troubleshoot and maintain CNC equipment, reducing downtime and improving machine reliability.
- Conduct quality inspections using precision measurement tools, ensuring compliance with client specifications.
- Manage part inventory and prepare orders for client delivery, streamlining workflow and minimizing delays.
- Facilitated training for new employees on CNC operation

Hondo Garage, Belgrade, MT, CNC Machinist / Assembly / Media Manager **January 2023 - July 2024**

- Assembled and performed quality control on final products, consistently meeting production standards.
- Designed and 3D-printed custom fixtures to improve efficiency in product photography and assembly.
- Operated CNC mills to support prototype and production runs.
- Produced professional product photography and videography, including setup, shooting, and editing for marketing campaigns.

Proof, Belgrade, MT, CNC Machinist / Assembly **January 2023 - July 2024**

- Assembled mechanical products and executed rigorous quality checks to ensure reliability.
- Designed and 3D-printed calibration fixtures for an automated CNC-loading robot arm, improving system accuracy and reducing setup time by 30%.
- Built custom enclosures and fixtures for a laser engraver, enhancing precision, operator safety, and improving workflow and time reduction by 45%.

PROJECTS

Automated Garden Watering System (Team Project) **May 2025 - June 2025**

- Led the design and development of an automated irrigation prototype with stepper-motor-controlled flow distribution, integrating microcontrollers, real-time clock modules, and environmental sensors.
- Designed a modular water distribution hub to provide scalable, precise irrigation across multiple plant zones.
- Implemented soil moisture, temperature, and humidity feedback with fan-controlled airflow, improving environmental stability through automated microclimate regulation.
- Integrated programmable grow lights and irrigation cycles, demonstrating a low-maintenance indoor farming system adaptable to different crop types.

Hobby Rocketry Components (Independent Project) **January 2024 - March 2024**

- Designed, modeled, and 3D-printed fin cans for high-power hobby rockets; conducted stress tests on PLA, PETG, and carbon fiber nylon to evaluate durability and performance under load.
- Engineered and assembled a fly-away rail guide carriage for multiple rocket body diameters, improving launch stability and reusability.
- Explored potential commercialization by consulting with distributors on hobbyist market demand and product fit.