

Anthony Aughenbaugh

Sales and Manufacturing Engineer

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Manufacturing and engineering professional with experience since 2018, combining CNC programming and CAD design with customer quoting, purchasing, and production coordination. Owns customer work from estimating through completion. Pursuing a master's degree in Industrial and Systems Engineering with a specialization in Engineering Management.

PROFESSIONAL EXPERIENCE

Wehrli Custom Fabrication | DeKalb, Illinois | June 2022 - Present

Sales and Manufacturing Engineer | June 2024 - Present

Joined as CNC Machine Shop Operator in June 2022

- Quote manufacturing jobs from initial customer requirements through production planning and completion, accounting for material, machining, fabrication, and outside finishing.
- Develop CNC programs and manufacturing strategies; coordinate material acquisition and purchase orders for outside processes.
- Support work involving CNC machining, laser cutting, waterjet cutting, press brakes, welding, and finishing, including aerospace and military specification requirements.
- Prepare first article inspections, certificates of conformance, material and special-process documentation, and adhesion test records.

Black Brothers Co. | Mendota, Illinois

Engineering Technician | 2018 - 2022

- Created and updated thousands of engineering drawings and technical files for waterjet production, including custom part drawings.
- Developed Excel tools and procedures to automate repetitive file preparation and maintain engineering drawing and inventory records.
- Led machine projects through design, modeling, drawings, and release meetings while coordinating with engineering and production teams.

TECHNICAL SKILLS

CAD and CAM Inventor, AutoCAD, SolidWorks, CAMWorks; familiarity with Fusion 360 and Esprit

Manufacturing and analysis CNC programming, estimating, process planning, technical drawings, quality documentation, Excel, 3D printing, Python, Raspberry Pi

EDUCATION

Northern Illinois University

Master of Science in Industrial and Systems Engineering | In progress

Specialization in Engineering Management

Bachelor of Science in Manufacturing Engineering Technology | 2023

Illinois Valley Community College | Associate in Engineering Science | 2021

SELECTED ENGINEERING PROJECTS

Raspberry Pi motion control | Academic project Developed Python touchscreen controls for four stepper motors using stacked Adafruit motor controllers.

CNC shop expansion | Academic analysis Evaluated phased equipment installation and machine purchasing using NPV, decision trees, and transition risk analysis.