Daniel Neuhaus

EDUCATION

• B.S. in Mechanical Engineering Technology, University of Cincinnati May 2020
• A.S. in Mechanical Engineering Technology Design, Cincinnati State Technical & Community College Dec 2016
• Nuclear Engineering MECH5103 Directed Study Course | Dr. Henry Spitz, Grade: A+ Jan 2020

PROFESSIONAL EXPERIENCE

Owner, Engineer 12/2016 – Present
EngineeringX LLC | Cincinnati, OH
❖ Created manufacturable design deliverables for metal fabrication, 3D printing, injection molding, installation instructions, and project planning; supported products from concept through production; coordinated with clients and manufacturers

Contract Engineer - Advanced Manufacturing 10/2024-2/2025
Contract Engineering Role | Cincinnati, OH
- ❖ Supported advanced aerospace manufacturing and precision mechanical hardware
- ❖ Supported test cell development and mechanical integration for high-performance test equipment
- ❖ Provided R&D support for ceramic additive manufacturing systems
  - ➢ Pneumatic controls, material handling systems, machine modifications, and iterative improvements
- ❖ Supported mold, casting, and materials-development tooling
- ❖ Developed part-quality test rigs and validation support hardware

Engineering Support - Aerospace & Energy Programs 4/2023-9/2024
Contract Engineering Support | Cincinnati, OH
- ❖ Drafting: drawing updates, instruction documents, technical illustrations, and NX model references
- ❖ Component Lifecycle Engineering (April - October 2023)
  - ➢ Supported aerospace component life assessment using operational/load data
  - ➢ Performed engineering calculations using engineering data systems and material information
  - ➢ Applied fatigue and crack-propagation principles to evaluate component life
  - ➢ Compiled calculation outputs and findings for engineering review and documentation
- ❖ Repair Technology Engineering (October 2023 - September 2024)
  - ➢ Supported test preparation, sensor-location planning, and component modification documentation
  - ➢ Coordinated with module leaders and project owners to meet schedule requirements
  - ➢ Reviewed drawings, manufacturing documentation, and repair instructions for accuracy
  - ➢ Recommended component-level fabrication and repair execution actions

Tool Design and Manufacturing Engineer 1/2022 - 4/2023
Addeaton by Numalliance | Lebanon, OH
- ❖ Design for manufacturing
  - ➢ Created customer and in-house tooling across high-volume order lines and expedited to four-month schedules
  - ➢ Conducted blueprint revisions, legacy updates, item setup, material planning, stocking, and final inspection
  - ➢ Specified processes: jig grinding, EDM, heat treatment, finishing, welding, laser etching, knurling, and grip blasting
  - ➢ Designed benders, mandrels, dies, collets, carts, machine updates, fixtures, and related manufacturing items
  - ➢ Improved manufacturability through cost-effective supplier and outsourcing coordination
  - ➢ Operated/supported mills, lathes, grinders, 3D printers, wire benders, laser etchers, engravers, and sandblasting
- ❖ Department coordination and development
  - ➢ Developed and distributed standards for engineering, programming, and manufacturing
  - ➢ Advised assembly, quality, purchasing, programming, sales, manufacturing, routing, and new-hire support
  - ➢ Interacted with clients; reverse engineered/improved tools; evaluated scrap, rework, and refurbishment
  - ➢ Supported recruiting with referrals from colleges, trade schools, and professional connections
- ❖ Collaborated with engineers; managed design-change records, database items, routing, material sourcing, and approvals

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OTHER WORK HISTORY

Tool Shop CAD Engineer (Co-op) 5/2016 - 12/2016
Mubea Inc. | Florence, KY
❖ Supported automotive manufacturing plant tooling, including German-engineered industrial tooling
❖ Refurbished, fabricated, and repaired cut dies
❖ Used wire EDM, grinding, manual mills, manual lathes, CNC mills, CNC lathes, induction shrink fitting, and band saw equipment

CNC Programmer 10/2021 - 1/2022
Cincinnati Gearing Systems | Cincinnati, OH
❖ Used SmartCAM and Autodesk Fusion 360 CAM software for G-code programming and machine-code conversion
❖ Managed tool database records, imported tools to a virtual library, and ordered required machine tooling
❖ Modified G-code as needed and coordinated updates with the manufacturing department and machinists

Teaching Assistant (Co-op) 12/2018 - 5/2019
University of Cincinnati/Chongqing University Joint Co-op Institution | Chongqing, China
❖ Assisted professors in a computer programming course serving 90 students
❖ Advised students considering transfer to the University of Cincinnati

SPOKEN LANGUAGES

- Mandarin Chinese: HSK 2
- Russian: fundamentals

SKILLS

- CAD: SolidWorks, Solid Edge, NX, Autodesk Inventor, AutoCAD
- Database: SyteLine, Microsoft Access, Teamcenter, engineering data systems
- Microsoft Office Suite, especially Excel
- CAM: Autodesk Fusion 360, SmartCAM, Mastercam
- Programming: MATLAB, C++, Python
- Additional: hydraulic circuits, pneumatic circuits, PLC programming
- Lathe, mill, tapping/drilling, grinding, power tools, hand tools, heavy/construction equipment

GOAL

Deliver high-quality engineering outcomes by coordinating design, manufacturing, documentation, and customer requirements from concept through execution.