DREW D. CURRY

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SKILLS SUMMARY

- Active U.S. Government Secret Security Clearance - Authorized for ITAR-restricted projects and classified government programs involving sensitive defense technologies and operations.

Core Competencies:

- Innovation-focused problem solving, process automation, and workflow optimization
- Full-stack web development for internal manufacturing tools and CNC process automation
- Advanced CAD/CAM modeling, 2D & 3D design, GD&T, and CNC programming
- Technical documentation control, drawing release, and ECN/BOM lifecycle management
- Cross-functional collaboration and solution delivery across engineering, production, and planning

Software Proficiency:

- Programming & Scripting: PHP, Python, HTML, CSS, SQL, G-code
- CAD & CAM Software: Siemens NX & Teamcenter , Vericut, Autodesk Inventor & Vault, AutoCAD, Mastercam, Solidworks, CIMCO Edit
- Productivity and Development Tools: Microsoft Office, Notepad++, Visual Studio Code, SAP

EXPERIENCE

Manufacturing Engineer, Senior Associate, NC Programming 02/2018 – Present
L3Harris Technologies, Greenville, TX

- Led the development and implementation of PHP-based software to automate preproduction processes for a family of parts, capable of handling over 4 trillion unique part number combinations. Eliminated manual CNC programming, streamlined workflows, and delivered $117,000 in cost savings within six months.
- Developed a web-based database application to streamline paint order tracking between the mix lab and multiple paint shops. Ensured full transparency from placement to delivery by automating email notifications, replacing manual processes, and significantly improving operational efficiency.
- Designed and maintained a departmental intranet website to centralize critical resources, internal documents, and job-specific training materials while documenting tribal knowledge. Streamlined onboarding and reduced training time with a self-service platform for accessing essential information.
- Created a web-based tool using PHP and JavaScript to consolidate CNC tool lists, enabling programmers to visualize conflicts in a single view and create unified lists for part families. Tool crib workers also adopted the tool to highlight differences, improving their workflows and reducing setup and machine changeover times.
- Developed a part number decoder for smart part numbers, standardizing workflows for the planning department by automating routing decisions based on part specifications. Built a logic-driven system to determine the appropriate machine or manual routing, eliminating inefficiencies and reducing unnecessary communication between programming and planning.
- Designed a web-based calculator with a custom database of boring bar tool components to assist CNC programmers in selecting optimal tooling combinations for machining required holes. By entering hole diameter and depth, the tool provided safe in-house component combinations or suggested orders for unavailable tools, reducing manual effort and increasing efficiency.

Manufacturing Engineer 10/2013 {–} 03/2017

Mirage ULR, Azle, TX

- Designed and programmed a wide range of rifle components—including adjustable stocks, suppressors, muzzle brakes, and Picatinny rails—while overcoming the absence of existing drawings, models, or tolerances.
- Developed a dynamic G-code architecture using macro variables and conditional logic to allow thread and material customization within a single program. Reduced 112 separate programs to 7 master templates, improving accuracy, reducing errors, and accelerating ECO updates.
- Reduced retooling time by 65% by standardizing production setups and creating process documentation to support repeatable workflows.
- Operated in a lean team environment, collaborating directly with company owners and cross-functional teammates to expand product offerings. Introduced three new product lines and standardized interlocking mechanisms for compatibility with modern attachments.
- Implemented a structured file system and part numbering strategy, reducing stored data by 80% and enabling faster revision control and traceability across projects.

Mechanical Designer 01/2014 – 07/2014

Axon Energy Products, Houston, TX

- Created detailed 3D models and engineering drawings in Autodesk Inventor and AutoCAD for oil and gas components, ensuring compliance with API and industry standards.
- Improved buffer tank designs to support lower-cost weld inspection procedures without compromising safety or code compliance.
- Collaborated with engineers to prototype new valve and seal designs, contributing to faster design iterations and manufacturability improvements.
- Managed ECNs and BOM revisions while assisting with data conversion, reverse engineering, and quote drawing preparation for new and legacy products.

EDUCATION

Bachelor of Science in Industrial Technology 08/2013

Tarleton State University, Stephenville, TX

Drafting Lab Assistant, Engineering Technology Dept.

- Trained and mentored underclassmen in Autodesk Inventor, 3D design, and digital drafting techniques through personalized, hands-on instruction.

Senior Project at Fibergrate Composite Structures, Ltd.

- Automated the design process in Autodesk Inventor to generate 3D models of Fibergrate's stair and inclined guardrail systems, eliminating the need to draft components individually and significantly reducing design time.

Drafting Intern at FMC Technologies, Inc.

- Updated detailed AutoCAD drawings for a 360,000-square-foot facility, incorporating 30 years of expansions and renovations into accurate facility documentation.