

Orion Lang

Benson, AZ | orion.lang101@gmail.com | Phone:928-243-7506 | <https://grimshadow.net>

Professional Summary

Self-taught application developer and technical specialist with over 7 years of experience creating internal software tools and automation solutions to improve manufacturing workflows. Originally hired as a laser programmer, I expanded my role to include software development, drafting automation, machine maintenance, and procurement. I developed applications that improved accuracy and significantly reduced processing times. I am passionate about designing practical solutions that connect software and production and help teams work more efficiently.

Key Achievements

- Developed and deployed internal applications, including a steel tracking system, DXF file cleaning and editing utilities, and machine language conversion tools that improved interoperability and reduced manual work.
- Delivered solutions that reduced programming time per part from approximately 15 minutes to less than 2, increasing throughput and lowering labor costs.
- Expanded responsibilities beyond original role to include laser troubleshooting, maintenance, repair, and process improvement.
- Contributed to AI-driven code annotation projects, improving the quality of machine learning training data.

Professional Experience

Arcadia Custom – [Tucson, AZ]

Laser Programmer / Internal Application Developer | Jan 2019 – Present

- Designed and implemented internal software tools to automate production workflows and improve operational efficiency.
- Built applications for DXF file processing, machine language conversion, and material tracking to support manufacturing operations.
- Collaborated with drafting and production teams to integrate software solutions into existing workflows and identify further automation opportunities.
- Programmed and operated multiple industrial laser systems and performed maintenance and troubleshooting to minimize downtime.
- Researched and prototyped solutions to streamline drafting and programming tasks.

Confidential AI Project (NDA, Contract) – Remote AI Trainer & Data Annotator | 2023 – Present

- Supported the development of machine learning models by annotating code datasets and assisting in generating structured training data.
- Collaborated with AI systems to write and review code used in annotation workflows, contributing to improved dataset quality and consistency.

Afni – [Tucson, AZ]

Customer Service Representative | Jan 2018 – Jan 2019

- Assisted Verizon Wireless customers with technical and billing issues while maintaining top performance metrics.
- Graduated top of training class and consistently exceeded key performance indicators, including handle time and customer satisfaction scores.

Selected Projects

- **Steel Tracker:** Designed and implemented an internal tool to track steel inventory throughout the production process. Improving accuracy and workflow visibility.
- **Laser Language Converter:** Developed a software utility to convert programs between multiple laser machine languages, improving compatibility across systems and reducing reprogramming work.
- **DXF Processing Tool:** Built an automated application for cleaning and editing DXF files prior to CNC programming, minimizing errors and reducing preparation time.
- **G-Code Visualizer:** Created a web-based visualization tool for G-code to support debugging and process planning, shared via grimshadow.net.

Technical Skills

Programming and Development

Python (2+ years), C++ (6+ years), C# (6+ years), Java (1+ year), BASIC, JavaScript, HTML/CSS

- Experience with internal application development, automation scripting, data annotation, and machine learning model training
- Web development fundamentals and backend scripting
- Version control with Git and development in Visual Studio

Software and Tools

- AutoCADLt (5+ years), ProCamII, Lantek Expert (2+ years), CAM programming (6+ years), CNC laser programming and operation
- Microsoft Office Suite (Word, Excel, Outlook, PowerPoint – 4–6+ years), Power Automate, SharePoint, Microsoft Access
- Smartsheets, Power BI, Adobe Acrobat

Manufacturing and Engineering Skills

- CNC programming and laser cutting (6+ years), DXF file processing, CAD drafting, schematic reading, and interpretation.
- Sheet metal fabrication support, quality control, mechanical troubleshooting, measurement tools (metric and imperial), calipers

AI Training and Data Annotation

- Code annotation and labeling for machine learning models under NDA
- AI-assisted code generation and workflow enhancement
- Familiarity with ChatGPT and large language model tools

Education

MCAT High School Diploma – Dec 2016

GPA: 3.89

Certifications and Additional Training

- Arizona Skill Standard – Law, Public Safety, and Security (2016 – Present)
- Arizona Skill Standard – Professional Sales and Marketing (2016 – Present)
- FEMA Emergency Management Institute – 13 certifications, including Ethics, Hazardous Materials, and Emergency Response

Portfolio and Blog

<https://grimshadow.net> – G-code visualizer and programming blog