

Kurt C. Jacobson

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WORK EXPERIENCE

MetalForming Inc., Peachtree City, Georgia, USA

- **Applications Engineering Manager**, Schröder North American Sales Apr 2019 – Present
 - Manage all technical aspects of sale, from initial print review to final commissioning and sign-off.
 - Work with customer to determine specific needs, select machine and develop tooling and automation strategies.
 - Prototype tooling and run demos / limited production to prove out concept, accuracy and consistency of parts.
 - Design of machine customizations (part handling, flipping, conveying) and tooling and preparation of drawings for factory approval, production and FAT.
 - Final installation and integration at customers facility, including training, commissioning, SAT and sign-off.
 - After-sale support and train of customers on Programming & Applications, including regular 4-day classroom style courses open to all customers.
- **Special Projects**
 - Design and development of fully automated 6.4m Jorns long folder cell, utilizing a Fanuc R-2000iC/125L. Fully parametric robot program for picking/placing and auto stacking on offload cart.
 - Development of software to auto generate part feasibility spreadsheets from Schröder POS3000 program files. Greatly speed up turn around for part studies.
 - Development of Autodesk Inventor plug-in to flatten sheet metal components form assembly and auto generate DXFs with extended data collections for POS3000. Equivalent to Schröder Unfold, ~\$21,000.

KCJ Engineering (Sole Proprietorship), Atlanta, Georgia, USA

- **Open-source Developer** Jan 2017 – Present
 - Lead developer of QtPyVCP, an extensible user interface toolkit for the LinuxCNC machine control.
 - Contributor to LinuxCNC and other projects related to engineering, controls and automation.
- **Mechanical Design Engineer** May 2015 – Present
 - Design and prototyping of speciality CNC machines and control software for the fabrication industry.
 - Perform CNC conversions, retrofits, restorations and troubleshooting/repair of machine tools.

Kennesaw State University, Marietta, Georgia, USA

- **Laboratory Manager**, KSU Center for Nuclear Studies Dec 2015 – Apr 2017
 - Managed liquid nitrogen supply for nuclear lab, including ordering and coordinating delivery.
 - Maintained five state-of-the-art radiation detectors and associated equipment.
 - Tracked usage and maintained inventory of more than 25 radiation sources.
 - Coordinated and ran 4-8 undergraduate reactor simulation labs per semester (Spring, Summer, Fall).

EDUCATION

Kennesaw State University, Marietta, Georgia, USA

- **B.S. in Mechanical Engineering Technology** Aug 2013 – Dec 2016
 - Cumulative GPA: 4.0 / 4.0
 - Concentration: Manufacturing
 - Minor: Nuclear Engineering

AWARDS & SCHOLARSHIPS

2021 Employee of the Year, MetalForming Inc.

- “In recognition of your excellent performance and dedication to MetalForming’s success.”

2016 Georgia Engineering Technology Student of the Year, Georgia Engineering Alliance

- Awarded by the Georgia Society of Professional Engineers.
- Recognized and commended by GA House Resolution 1560 and GA Senate Resolution 1136.

PROFESSIONAL CERTIFICATIONS

Certified Manufacturing Technologist, Society of Manufacturing Engineers
Certified SolidWorks Associate, DS SolidWorks Corporation

SKILLS

SolidWorks, Inventor, Fusion360, AutoCad, HSMWorks, Jig/Fixture/Tool Design, GD&T, Python, Bash, C#, C/C++, MATLAB, GTK+, Qt, Documentation, reStructuredText, HTML, Markdown, AsciiDoc, L^AT_EX, Microsoft Office.

INTERESTS & HOBBIES

Precision Machining, Industrial Automation, Open Source Software Development, Linux, Vintage Automobile Restoration, Pattern Making, Metal Casting, Woodworking, Hobby Farming.