

# 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
  - Effectively communicate with customers to determine application and support requirements.
  - Manage all technical aspects of new machine sale, from initial print review to final commissioning and sign-off.
  - Work with existing customers on tooling, control upgrades, and adapting older machines to current needs.
  - Prototype tooling and perform machine demos to prove out concept, accuracy and consistency of parts.
  - Design of tooling and machine components for production by Schröder, as well as updating control software.
  - 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. Developed modular and 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. Significantly decreased turn around time 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
  - Mechanical 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, AutoCad, Fusion360, HSMWorks, Jig/Fixture/Tool Design, GD&T, Python, Bash, C#, C/C++, MATLAB, GTK+, Qt, Documentation, reStructuredText, HTML, Markdown, AsciiDoc, L<sup>A</sup>T<sub>E</sub>X, Microsoft Office, SIMATIC STEP 7, B&R Automation Studio and SDM.

## INTERESTS & HOBBIES

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