

Kurt C. Jacobson

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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

WORK EXPERIENCE

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 Engineer** May 2015 – Present
 - Design and prototyping of specialty 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).
- **Student Assistant, KSU Department of Mechanical Engineering** Jan 2016 – Dec 2016
 - Graded homework and tests for upper level Mechanical and Nuclear Engineering courses.
 - Presented and promoted the Nuclear Engineering lab and program to industry and university boards.
 - Set up equipment and assisted in running Radiation Detection and Measurement labs.
- **Supplemental Instruction Leader, Southern Polytechnic College of Engineering** Aug 2015 – Dec 2016
 - Pioneered use of Supplemental Instruction (SI) for upper level engineering courses at KSU.
 - Compiled worksheets and developed and maintained website to aid in distributing materials to students.
 - Enhanced student engagement, improved grades, and reduced attrition rate within the Strength of Materials course.

Niels M. Jacobson & Associates Inc., Atlanta, Georgia, USA

- **Field Assistant** 2008 – Aug 2013
 - Assisted in inspecting residential and commercial properties and advising clients.

AWARDS & SCHOLARSHIPS

2016 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.

Clarence Arnston Award, KSU Mechanical Engineering Technology Department

- Outstanding Senior in Mechanical Engineering Technology of the year 2016.

President's List, KSU Office of the President

- Awarded each semester for maintaining an overall GPA of 4.0.

PROFESSIONAL CERTIFICATIONS

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

PROFESSIONAL SOCIETIES & ACTIVITIES

- American Nuclear Society
- Society of Manufacturing Engineers
- International Society of Automation
- American Society of Mechanical Engineers
- Kennesaw Nuclear Society - Vice President Jan 2016 – Dec 2016

SKILLS

SolidWorks, Fusion360, HSMWorks, Jig/Fixture Design, GD&T, Python, Bash, 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, Hiking.