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 · Focus: Manufacturing, Engineering Graphics Minor in Nuclear Engineering Jan 2015 - Dec 2016 RESEARCH **Center for Nuclear Studies**, Kennesaw State University **EXPERIENCE** Undergraduate Research Project Jun 2016 – Apr 2017 Project: Alpha Radiation Detector Development And Testing Under Various Conditions • Supervisors: Dr. Eduardo B. Farfan and Dr. Sandip Das • Focus: Development of a precise and low-cost Chang-Rosenblum type alpha particle detector. • Presented at the National Conference on Undergraduate Research, University of Memphis, Apr 6-8, 2017 WORK Kennesaw State University, Marietta, Georgia, USA **EXPERIENCE** 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 all associated equipment. • Tracked usage and maintained inventory of more then 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 all homework and tests for multiple upper level Mechanical and Nuclear Engineering courses. • Presented and promoted the Nuclear Engineering lab on multiple occasions to industry and university boards. • Set up equipment and assisted instructors in running the Radiation Detection and Measurement labs. Supplemental Instruction Leader, Southern Polytechnic College of Engineering Aug 2015 – Dec 2016 • One of the first to offer Supplemental Instruction (SI) for upper level engineering courses at KSU. • Developed worksheets and created and maintained a website to aid in presenting material to struggling students. · Enhanced student learning, improved grades, and greatly reduced attrition rate within the Strength of Materials course. Tubular Fabrication LLC, Flowery Branch, Georgia, USA Lead Mechanical Engineer May 2015 – Aug 2015 • Developed a novel, semi-automatic, pneumatically actuated, precision large-bore chuck. • Created dedicated, easy to use, interactive software for calculating cut path trajectory. • Fabricated a functional prototype and tested in production environment. • Achieved significantly increased accuracy of notches, and reduced cycle times by more than 75%. **AWARDS &** President's List, Fall 2013 through Fall 2016, Kennesaw State University 2013 - 2016**SCHOLARSHIPS** Awarded each semester for maintaining an overall GPA of 4.0. Clarence Arnston Award, KSU Mechanical Engineering Technology Department Dec 2016 Awarded for Outstanding Senior in Mechanical Engineering Technology in the year 2016. • Engineering Technology Student of the Year, Georgia Engineering Alliance Feb 2016 Awarded at the Georgia Engineers Week Awards Gala. **PROFESSIONAL** American Nuclear Society, Professional Member Feb 2017 - Present **AFFILIATIONS** Kennesaw Nuclear Society, Vice Present Jan 2016 – Dec 2016 & ACTIVITIES Society of Manufacturing Engineers, Student Member 2016 - Present American Society of Mechanical Engineers, Student Member Oct 2015 - Present **PROFESSIONAL** Certified Manufacturing Technologist, Society of Manufacturing Engineers Dec 2016 - Dec 2019 **CERTIFICATIONS** Certified SolidWorks Associate, DS SolidWorks Corporation Nov 2014 - Jan 2018 Python, Solidworks, MATLab, NI LabVIEW, Microsoft Word, Microsoft Excel, Microsoft PowerPoint. **SKILLS**

INTERESTS & HOBBIES

Precision Machining, Industrial Automation, Open Source Software, Linux, Woodworking, Hiking