

Curriculum Vitae – Joseph M. Kissling, Jr., B.S.

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Educational Background:

M.S.E. Program Mechanical Engineering	Grand Valley State University Allendale, MI	2014-Present
B.S.M.E. Mechanical Engineering	University of Texas at San Antonio San Antonio, TX	2014

Professional Experience:

08/2016-Present: [B. H. Barkalow & Associates, LLC.](#), Newaygo, MI. **Mechanical Engineering Consultant.** Responsibilities consist of assisting in all manner of engineering consulting projects and forensic investigations using: mechanical engineering modeling, as in SolidWorks; mathematical solutions and modeling for such things as the bioheat and Arrhenius equations for simulation of burn injuries; medical device design, e.g. mechanical CPR and test lungs; firmware and software for electronic applications, such as using Arduino hardware and software; and mathematical solutions using programs such as Mathematica, MathCad, and LabView.

08/2014-Present: [OrthoForge](#) , Grand Rapids, MI. **Engineering Consultant.** Research, design, rapid prototyping, testing, and analysis of a device to aid in the healing of bone. Work also includes assisting in the creation of proposals, with the creation of figures and tables.

09/2014-05/2016: [Grand Valley State University- School of Engineering](#) , Allendale, MI. **Graduate Assistant.** Assisting the instructors with the laboratory section of the Introduction to Engineering Course, teaching students aspects of both Mechanical and Electrical Engineering, such as design, fabrication, circuits, and programming.

05/2015-12/2015: [Butterball Farms](#), Grand Rapids, MI. **Engineering Intern.** Designing new machinery for the factory floor, continuous improvement of existing equipment for efficiently and safety.

02/2012-05/2014: [University of Texas at San Antonio- Robotics and Intelligent Machines Laboratory](#), San Antonio, TX. **Research Assistant.** Undergraduate Research assistant in the Robotics and Intelligent Machines Laboratory working hands on with numerous prototyping projects under the direction of Dr. Brent Nowak at the University of Texas at San Antonio.

11/2012-05/2014: [University of Texas at San Antonio- College of Mechanical Engineering](#), San Antonio, TX. **Materials Laboratory Assistant.** Teaching the students how to use the lab equipment and perform experiments as well as prepare samples for the experiments for the Strength of Materials Course at the University of Texas at San Antonio.

06/2013-09/2013: [U.S. Army Institute of Surgical Research](#), Fort Sam Houston, San Antonio, TX. **Civilian Contractor.** Improved a waveform recognition algorithm using MATLAB, working with signal filtering and feature recognition for the Department of Defense.

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