

Ermin Behremovic

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EXPERIENCE

Jentek Sensors Inc., Amherst, MA – Mechanical Engineer

February 2022 - September 2022

- Mechanical Engineer position in a manufacturing startup environment designing and engineering custom non destructive material testing solutions for government and commercial customers
- Working directly with Senior Product Developers to develop full life cycle design for manufacturing of Jentek products, including generating 2D and 3D models and drawings, BOM, manufacturing and fabricating parts by contracting vendors or rapid prototyping
- Developed testing and validating procedures for prototypes and products

Center for Energy Efficiency and Renewable Energy, Amherst, MA – Research Assistant

August 2021 - January 2022

- Participated in Department of Energy Industrial Center Program gaining experience as a project engineer for industrial energy efficiency
- Prepared billing analysis of facilities; electric, fossil fuel, and water/sewer bills are assembled and broken down to marginal costs
- Performed energy audits with stakeholders to discuss facility operations, mechanical systems of concern, and energy savings goals
- Prepared resource conservation reports with data from the energy audits and compiled assessment recommendations using mechanical engineering research techniques to determine what is going to yield the most energy savings

UConn Senior Design, Storrs, CT – Team Lead

August 2019 - May 2020

- UConn team based project tasked with designing a retrofit to an ultrasonic metal welder in order to improve design for manufacturing
- Implemented a validated gather tool mechanism. Complete report with analysis of results comparing to the original design, provided a recommendation to design the anvil tool mechanism, and designed an experiment to test performance metrics of welded parts

Languages

Native bilingual in English and Yugoslavian, proficient in Spanish

Skills

Sourcing and Supplier Evaluations, Design for manufacturing, BOM development, geometric dimensioning and tolerancing, 2D and 3D production drawings, rapid prototyping, reverse engineering, professional manufacturing knowledge

Engineering project management and organization, communication and rapport with customers and vendors

Software: Microsoft Office, Excel, Google Drive, Solidworks, NX, Matlab, Labview, Ansys, SAM, REopt, 3E PLus, HOBOWare, Adobe

Technical: Power and machine tools, welding and testing, CAM & CNC mills and lathes, 3D printing, voltmeter,

Sonics and Materials Inc., Newtown, CT — *Mechanical Engineering Intern*

May 2019 - August 2019

- Mechanical engineering intern for researching and developing the design of an ultrasonic wire splicer
- Gained experience in a manufacturing environment
- Worked independently and in tandem with engineers to learn the DFM of an ultrasonic wire splicer including GD&T, 2D and 3D of custom parts, material and coating selection, evaluation of BOM and organized notekeeping

measuring power factors, strain gage, accelerometer, IR Camera

Architecture and building construction, passive buildings and building decarbonization, heat pumps, HVAC, lighting, solar PV and thermal

MMA Waterfront, Castine, ME — *Maintenance Crew*

October 2016 - May 2017

- Member of the maintenance crew on the MMA Waterfront providing support to the small vessels and watercrafts
- Work included: dry docking vessels, polishing, cleaning and painting hulls, replacing and fitting decks, replacing electrical and mechanical components on vessels
- Inspecting welds using electromagnetic testing and radiography testing

Energy modeling and demand limiting for facilities

EDUCATION

University of Massachusetts, Amherst, Ma — *M.S. Mechanical Engineering*

August 2021 - May 2022

GPA: 3.8

University of Connecticut, Storrs, CT — *B.S. Mechanical Engineering*

August 2017 - May 2020

GPA: 3.3