

Eno Shira, EIT

Philadelphia, PA

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Experienced Mechanical Engineer with a specialized focus in Aerospace. Proven track record in the manufacturing industry. Demonstrated expertise in applying lean principles while also being proficient in AutoCAD, Microsoft Office Suite (Word, Excel, PowerPoint), MATLAB, CATIA, SolidWorks, Fusion 360, Inventor, and PTC Creo. Possesses knowledge in circuits and digital logic. Eager to leverage academic and industrial background to drive innovation and efficiency in the manufacturing industry.

Professional Experience

Fastener Dimensions, Inc.

Pennsauken, New Jersey

Manufacturing Engineer

April 2024—Present

- Developed routers for the manufacturing of aerospace-standard fasteners, including NAS, MS, AN, and AS, while ensuring conformity with industry regulations, specifications, and standards
- Created manufacturing prints and technical drawings to support the production of aerospace fasteners
- Communicated with vendors and suppliers regarding outside services, including heat treatment, coating, testing, and other processes, to allow for timely delivery and adherence to quality standards
- Created purchase orders for outside processes, ensuring timely execution and compliance with regulations and standards as well as budgetary requirements
- Led and contributed to continuous improvement projects, improving process efficiency and leading to cost reduction in manufacturing operations

Drexel University

Philadelphia, Pennsylvania

Student Grader—MEM 351: Dynamic Systems Laboratory I

January 2023—April 2023

- Graded and provided timely written feedback for 5 biweekly group lab reports across 6 different lab sections spanning 115 students
- Compiled, analyzed, and submitted student grading data for the Accreditation Board for Engineering and Technology (ABET) assessment
- Initiated and scheduled meetings with the class professor to discuss grading protocols and progress as needed

SPS Technologies

Jenkintown, Pennsylvania

Engineering / Operations Co-op

May 2020—September 2020

- Performed root cause analysis for defective and scrap parts for the 12 bolt departments in the organization
- Collected, interpreted, and distributed data concerning bolt shop order rejections for the use of supervisors in daily meetings
- Automated worksheets for the production of monthly quality report cards given to operators
- Contributed and engaged in 6S projects used to improve productivity, organization, and safety in the workplace
- Designed structures to be used for the improvement of the disposal of twist-off splined extensions
- Fabricated tool holders to be used for the storage and organization of operator tooling and equipment

Eaton Corporation

Glenolden, Pennsylvania

Manufacturing Engineering Co-op

April 2019—September 2019

- Designed fixtures to be used during the assembly and fabrication process to increase efficiency
- Produced floor layout for entire facility to be used as a lean manufacturing tool
- Participated in Rapid Improvement Events for the elimination of waste in manufacturing processes and increased productivity using 3P, 5S+, Standard Work, and VSM
- Developed and released Manufacturing Instructions
- Conducted time studies for the calculation of cost out and verification of processes to be used for the justification of the purchase of a new laser marking machine
- Utilized vinyl cutter software to create masking templates for paint processes

C. & J. Nyheim Plasma Institute

Camden, New Jersey

Student Researcher

April 2018—September 2018

- Simulated fluid flows of various properties through different geometries to help in the research of applied plasma
- Presented simulated results and other findings to the employer and other relevant researchers
- Assisted in organization and implementation of the 7th International Conference on Plasma Medicine

Education

Drexel University

Master of Science in Mechanical Engineering (Cuml. GPA: 3.66)

Bachelor of Science in Mechanical Engineering, Aerospace Concentration (Cuml. GPA: 3.51)

Philadelphia, Pennsylvania

September 2021—March 2023

September 2016—June 2021

- **Honors and Awards:** Dean's List Distinction, AJ Drexel Merit Scholarship, Graduated Cum Laude

Skills/Certifications

Software: Microsoft Office, SolidWorks, Creo Parametric, CATIA, Fusion 360, Inventor, AutoCAD, Ansys, LabView, ModelSim, MultiSim, Graphtec, Visual Analysis, IBM SPSS, 3D Printing, JobBOSS

Interpersonal Skills: Communication, Problem-solving, Teamwork, Adaptability, Time management, Attention to detail

Programming Languages: MATLAB, Python, CSS, HTML

Languages: Conversational Spanish, Fluent Albanian

Certifications: EIT Certification, Pennsylvania, October 2023

Project Experience

Personal Website Portfolio

Web Designer

Personal Project

April 2024

- Utilized HTML and CSS to develop visually appealing and user-friendly portfolio website to showcase professional and academic projects, resumes, and certifications
- Employed GitHub Pages to host professional portfolio website, enabling public accessibility and reliability to allow for version control and seamless updates
- Integrated PDF embedding functionality and code minimization, allowing for a more interactive and immersive experience, leading to improved user satisfaction

Arduino Surveillance Eyewear Project

Lead CAD Designer

Drexel University

September 2020—June 2021

- Designed and simulated novel eyewear product allowing the user to view video feed from a camera accessory placed anywhere within wireless range
- Developed CAD part and assembly files for the utilization in simulation and fabrication of a working prototype as well as for a proof of concept model used in presentations and technical reports
- Presented design process and results of one of the two operational models to Drexel University advisor, staff, and peers
- Wrote product proposal and technical report for perusal of stakeholders and other interested parties

Photovoltaic Cellular Charger Project

Designer and Theoretical Analyst

Drexel University

March 2017—June 2017

- Designed and fabricated a photovoltaic cell phone charger with reasonable recharge time
- Tested prototype for efficiency and functionality with a series of tests carried out in varying environmental conditions
- Presented finished project in front of a panel of Drexel University professionals in relevant field

Raman Spectroscopy and Graphene Oxide Research

Student Researcher

University of Pennsylvania

May 2016—June 2016

- Researched graphene sheets, carbon nanotubes, and hollow carbon spheres for potential uses in supercapacitors
- Utilized a Raman spectrometer to analyze the properties of graphene
- Prepared and presented information pertaining research to associate professor and research team

Volunteering

Laura W. Waring School Volunteer

Lecturer and General Assistant

Philadelphia, Pennsylvania

June 2016

- Presented various engineering disciplines and career paths to middle school students
- Supported students with academic inquiries and aided the teacher when needed
- Instructed students in crafting presentations using Google Drive

Activities

Member, Pi Tau Sigma International Honor Society, 2020—Present

Member, American Society of Mechanical Engineers, 2018—2023

Member, Institute of Electrical and Electronics Engineers, 2017—2018