

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.

Manufacturing Engineer

Pennsauken, New Jersey

April 2024—Present

- Created 12+ monthly routers and travelers for the manufacturing of aerospace-standard fasteners, including NAS, MS, AN, and AS, while ensuring conformity with industry regulations, specifications, and standards
- Produced 20+ monthly manufacturing shop, tooling and outside vendor prints to support the production of aerospace fasteners
- Coordinated with vendors regarding outside services, including heat treatment, coating, and testing, to allow for timely delivery and adherence to quality standards
- Issued 60+ monthly purchase orders for outside processes, ensuring timely delivery, regulatory compliance, and adherence to budget
- Led and contributed to continuous improvement projects (ex. Work Instructions), improving process efficiency and achieving an On-Time Delivery (OTD) rate of 94% while driving cost reductions in manufacturing operations

Drexel University

Student Grader—MEM 351: Dynamic Systems Laboratory I

Philadelphia, Pennsylvania

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

Engineering / Operations Co-op

Jenkintown, Pennsylvania

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, resulting in an annual cost savings of approximately \$36,000
- 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

Manufacturing Engineering Co-op

Glenolden, Pennsylvania

April 2019—September 2019

- Engineered fixtures to be used during the assembly and fabrication process to increase efficiency
- Drafted facility layout in AutoCAD to support lean manufacturing initiatives
- 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

Student Researcher

Camden, New Jersey

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)

- **Honors and Awards:** Pi Tau Sigma International Honor Society, Dean's List Distinction, AJ Drexel Merit Scholarship, Graduated Cum Laude

Philadelphia, Pennsylvania

September 2021—March 2023

September 2016—June 2021

Skills/Certifications

CAD & Design: SolidWorks, Creo Parametric, CATIA, Fusion 360, Inventor, AutoCAD, SmartDraw

Simulation & Analysis: Ansys, LabView, Visual Analysis, IBM SPSS, ModelSim, MultiSim

Programming: MATLAB, Python, HTML, CSS

Manufacturing Tools: Microsoft Office, JobBoss (ERP), Graphtec, 3D Printing, Lean Manufacturing, GD&T

Languages: Conversational Spanish, Fluent Albanian

Certifications: EIT Certification, Pennsylvania, October 2023

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

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

Lead CAD Designer

Drexel University

September 2020—June 2021

- Modeled and simulated novel eyewear product that allows the user to view video feed from a camera accessory placed anywhere within wireless range using a ESP32-CAM and TTGO T-Display
- Developed CAD part and assembly files for simulation and fabrication of a working prototype as well as for a proof of concept model used in presentations and technical reports, resulting in a system weight of 2.48 oz for user comfort
- Presented process and results of one of two working models for product to 100+ Drexel University advisor, staff, and peers
- Wrote 20+ page product proposal and technical report for stakeholders

Aircraft Design & Flight Testing

Lead Design and Aerodynamic Analyst

Drexel University

September 2020—December 2020

- Designed and fabricated fixed-wing glider using a NACA 6412 airfoil, optimizing for maximum cruise velocity range at sea level through iterative aerodynamic testing
- Calculated and validated key flight parameters including Reynolds number, coefficient of lift/drag, static margin (-0.5), and cruise velocity (1.9–14.2 ft/s)
- Resolved stability and control issues through redesign of fuselage, tail, and wing geometry while achieving stable flight with a 52.4 g payload capacity
- Conducted flight testing and performance analysis, generating drag-polar curves, takeoff/landing distances, and comparison with theoretical airfoil data ($\leq 16\%$ error)

Photovoltaic Cellular Charger

Designer and Theoretical Analyst

Drexel University

March 2017—June 2017

- Designed and manufactured 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
- Showcased 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

Philadelphia, Pennsylvania

Lecturer and General Assistant

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