Eno Shira, EIT

Philadelphia, PA | 215-715-1143 | enoshira13@gmail.com
https://www.linkedin.com/in/eno-shira/ | https://enoshira13.github.io/portfolio/

Manufacturing Engineer (EIT) with experience in aerospace fastener production, lean manufacturing, and continuous improvement. Proficient in CAD, ERP, and cross-functional collaboration. MS/BS in Mechanical Engineering with an aerospace concentration.

Professional Experience

Fastener Dimensions, Inc. - Pennsauken, New Jersey
Manufacturing Engineer | April 2024—Present

- Created 12+ monthly routers and travelers for the manufacturing of aerospace-standard fasteners, including NAS, MS, AN, and AS, while ensuring conformance 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

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, 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 - Glenolden, Pennsylvania
Manufacturing Engineering Co-op | 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

Education

Drexel University - Philadelphia, Pennsylvania
M.S. Mechanical Engineering | September 2021 - March 2023
B.S. Mechanical Engineering, Aerospace Concentration | September 2016 - June 2021

- **Cumulative GPA:** 3.66 (M.S.), 3.51 (B.S.)
- **Honors and Awards:** Pi Tau Sigma International Honor Society, Dean's List Distinction, AJ Drexel Merit Scholarship, Graduated Cum Laude

Skills

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

Project Experience

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 (≤16% error)