

E. Semih Akyuz

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Objective

Seeking positions to develop further knowledge and expand my skillset relating to the Lithography or Aerospace industry. Interested in a broad range of topics and excel in a dynamic work environment with challenges spanning various sciences.

Education

University of New Haven - West Haven, CT

Aug 2021 - May 2026

BS + MS in Mechanical Engineering (Dual Degree Program)

Cumulative GPA: 3.96

Platt Technical Highschool – Milford, CT

Aug 2017 - Jul 2021

Precision Machining / Manufacturing

Experience

Peer Assistant (U. New Haven – West Haven, CT)

Aug 2022 - Present

Assisting with various Engineering courses during and outside of class.

Additionally employed in the Makerspace to aid students with the following.

- Project Planning
- Laser Cutting
- CNC Routing
- 3D Printing

Toolmaker Intern (ASML Model Shop – Wilton, CT) Two Summers

May – Aug 2021 & 2022

Year 2

Workflow overhaul resulting in savings upwards of \$140,000/yr.:

- Redesigned and automated a majority of the managerial workflow.
- Increased customer transparency and efficiency of interactions.
- Designed and automated internal and external feedback loops.
- Automated data modification & approvals relating to work orders.
- Created user-friendly interfaces for management and our customers.

Cross department collaboration on two individual intern projects to offer manufacturability & design feedback and manufacture components for the following.

- Universal Linear Test Assembly
- Pre-Load Indicating Washer

Year 1

Aided in Model Shop output to learn about complex manufacturing processes.

- Material selection & process planning.
- Advanced machine setups & Mastercam programming.
- Low volume – high complexity prototype production and modification.

CNC Machine Operator (RBC Bearings – Oxford, CT)

Jul 2021 – Feb 2022

- Simultaneously operated multiple 3 to 9 axis CNC Machines.
- Inspected and verified conformance.
- Troubleshooted automated measurement systems including robotic arms.
- Set up machines for high-volume production.
- Optimized costs by balancing feed rates and tool lives.

Machinist Intern (Stevens Mfg. Co. – Milford, CT)

Feb 2021 – Jul 2021

Learned about aerospace production processes including:

- CNC Machining & Deburring.
- Inspection & Quality Control.
- Part Modifications & Reworks.
- Surface treatments
- Traceability protocols.

Licenses & Certifications

- Solidworks CSWA
- Haas Mill & Lathe Operator
- OSHA 10 Hour

Skills & Abilities

Manufacturing	Software / Programming
<ul style="list-style-type: none">• Milling & Lathe• GD&T• Inspection & QC• Advanced Machine Setups• Mastercam Programming• 3D Parametric CAD• Ansys Mechanical FEA• CIMCO Edit• Laser Cutting• 3D Printing• Process Optimization	<ul style="list-style-type: none">• C++• Python• PowerFX Automation• PowerApps Development• Excel & VBA Programming• Multisim Simulation• LabView Data Collection• Office Suite• Familiarity With Networking Protocols• Basic Website Hosting• Linux Familiarity

Awards

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| <ul style="list-style-type: none">• UNH Dean's List (All 5 Semesters)• UNH Presidential Scholarship (5x)• UNH Engineering Award (5x)• Roberta B Willis Scholarship (2x) | <ul style="list-style-type: none">• Kazimierz Goszcz Scholarship (4x)• Gene Haas CNC Training Grant• 81st / ~3000 AMY-6 Math Olympiad |
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Project Portfolio & Related Documentation at - github.com/ESemihAkyuz