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| **E. Semih Akyuz**  Junior Mechanical Engineering student looking to gain further experience in the Lithography or Aerospace industry. Primary interests include component design, automation, process optimization, and CAD. Current cumulative GPA of 3.95. | 64 Camden Street  Milford, CT 06461  **(475) 689-7127**  **eakyu1@unh.newhaven.edu semihakyuz54@gmail.com**  [**linkedin.com/in/semihakyuz**](https://www.linkedin.com/in/semihakyuz) |

# EXPERIENCE

**University of New Haven,** West Haven CT— *Peer Assistant*

August 2022 - Present

Teacher’s Assistant for Introduction to Eng. & Methods of Engineering Analysis. Additionally employed in the Makerspace to aid students with use of machinery and project planning. Areas of interest include laser cutting, 3D printing, and CNC routing.

**ASML Model Shop Year 2 (Contracted),** Wilton CT — *Toolmaker Intern*

May 2023 - August 2023

Workflow Overhaul  
- Identified inefficiencies in the team's workflow  
- Redesigned & streamlined processes for efficiency and customer transparency  
- Added automated internal and external feedback loops  
- Automated data modification & approval processes

- Created easy to use interfaces for management and customers  
- Drafted a site-wide communication in the newsletter informing customers

- Presented the changes to the D&E DM  
- Saving upwards of $140,000/year in work hours for the Model Shop team

Cross-Department Collaboration with Other Interns

- Collaborated on a Universal Linear Test assembly & Pre-Load Indicating washer.  
- Provided manufacturability feedback during the design stages of both projects  
- Manufactured and delivered the components for both projects  
  
Additionally held similar responsibilities to previous ASML internship as time permitted from primary projects.

**ASML Model Shop (Contracted),** Wilton CT — *Toolmaker Intern*

May 2022 - August 2022

- Process Planning & Execution

- Prototype Manufacturing

- Advanced Machine Setups & Mastercam Programming

- Low-Volume, High-Complexity Production & Modifications

- Direct Customer Interaction (With Internal Engineers)

**RBC Bearings,** Oxford CT — *CNC Machine Operator*

July 2021 - February 2022

- Simultaneously operated multiple 3 to 9 axis CNC Machines

- Inspected components and verified conformance

- Troubleshooted automated measurement systems

- Basic Machine Setups

- Optimized production costs by balancing feed rates and tool lives

**Stevens Manufacturing Co.,** Milford CT— *Machinist Intern*

February 2021 - July 2021

Learned about aerospace production processes including:

- CNC Machining & Deburring

- Inspection & Quality Control

- Part Modifications / Reworks

- Critical Flight Safety Parts

# EDUCATION

**University of New Haven,** *Mechanical Engineering*

August 2021 - Present

BS M.E. 2025 & MS M.E. 2026 through dual degree program. GPA of 3.95.

**Platt Technical High School,** *Precision Machining*

August 2017 - June 2021

# LICENSES & CERTIFICATIONS

Solidworks CSWA

Haas Mill & Lathe Operator

OSHA 10 Hour

# SKILLS

Milling & Lathe (Manual & CNC)

GD&T

Inspection & QC

Complex Milling Setups

Mastercam 3 Axis Programming

3D Parametric CAD

Ansys Mechanical FEA

CIMCO Edit (G-Code)

PowerFX Automation

Advanced Excel with Macros & VBA

Python Programming

MultiSim Circuit Simulation

Intermediate C++ Programming

Intermediate LabView Competency

# AWARDS

UNH Dean’s List – 5x

UNH Presidential Scholarship 5x

UNH Engineering Award 5x

Kazimierz Goszcz Scholarship 5x

Gene Haas CNC Training Grant

81st/~3000 in AMY-6 Math Olympiad

# LANGUAGES

English, Turkish

# PROJECT PORTFOLIO

[GitHub Page](https://github.com/ESemihAkyuz/ESemihAkyuz.github.io)