

# 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.

## 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

64 Camden Street

Milford, CT 06461

(475) 689-7127

[eakyu1@unh.newhaven.edu](mailto:eakyu1@unh.newhaven.edu)

[semihakyuz54@gmail.com](mailto:semihakyuz54@gmail.com)

[linkedin.com/in/semihakyuz](https://www.linkedin.com/in/semihakyuz)

## 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](#)