

HARRISON TRACY

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214 Talmage Rd, Mendham,
New Jersey, 07945

Education

New Jersey Institute of Technology (NJIT) – September 2020 – August 2024

- Majored in **Mechanical Engineering**

West Morris Mendham Highschool – January 2017 – May 2020 (Graduation)

Work Experience

- **Sales Engineer:** Jul 2022 – Aug 2022 – SICAM Corporation, Hillsborough NJ
 - Quickly adapted to new position and learned responsibilities
 - Quotes, Orders, Customer service, interpreting engineering drawings
 - Planning operating deadlines based on company backlog
- **Additive Manufacturing Operator:** Feb 2022 – Jul 2022 & Jan 2023 – May 2023 – SICAM
 - MJF, SLA, FDM Additive Manufacturing technologies
 - Fabricated fixtures for geometric dimension and tolerancing procedures (GD&T)
- **Additive Technician:** Oct 2023 – Mar 2025 – Imperial Machine & Tool, **Kaiser Aluminum**
 - Part time during semesters
 - Metal additive experience with Laser Powder Bed Fusion technology
 - Titanium, Steel, Aluminum
 - 3D Modelling and Additive Manufacturing post processing, shop tools
 - Fabricating tooling/fixtures, CNC exposure, testing/inspection (pressure/leak tests, tensile tests, material characterization tests)

Extracurriculars/Accomplishments

- **Lead Design Engineer on Thermal Engineering Project: Liquid-cooled robotic gripper**
 - Project Lead
 - Heat transfer, successfully designed, verified and validated (V&V) mechanical component to operate within acceptable thermal range
- **Led Engineering for Heat Transfer Simulation**
 - Designed cooling channel pipe and successfully tested in using MATLAB QuickerSim
- **Duke of Edinburgh Award: Fall 2016 – Spring 2017**
 - Navigation leader for 8-person team
 - Planned route for 3-day long hike through mountains
- **Stevens Institute of Technology Pre-College Program:** 1 week summer of 2019
 - Teamwork, building final project, presented final project

Skills

- Computational Engineering
 - Aided by AI to script algorithms using PicoGK to create implicit models
- CAD (SolidWorks), FEA Analysis (Ansys and SolidWorks)
- Planning Operations, Communication, Writing

References

Zane Brylinski (973-600-1266) – Supervisor at Imperial Machine and Tool

Mike Begarney (mike.begarney@kaiseraluminum.com) – Chief Scientist at Imperial Machine and Tool

Vito Matalliano (908) 635 4306 – Coworker at SICAM Corporation