Niku Angier
369 Ives St
Providence, RI, 02906
401-742-4368
angier.n@northeastern.edu

https://nangier.wixsite.com/niku

Skills & Abilities

APPLICATIONS

- SolidWorks, AutoCAD, Onshape Photoshop, Adobe Suite, Excel, MATLAB

FABRICATION

- Basic MIG welding training from The Steelyard, Providence, RI
- Metal machining with Bridgeport mills and lathes
- Advanced mechanical hand tools experience
- Experience designing for CNC machining and GD&T

Interests

- Highly invested in automotive industry, with several independent mechanical projects (1978 Kawasaki KL250 restoration, 2000 Kawasaki BN125 restoration, 1976 Honda CB200 restoration, 1988 Porsche 944 ongoing restoration)
- Experienced with illustration and animation including digital and traditional mediums, and technical patent drawings

Education

NORTHEASTERN UNIVERSITY, BOSTON, MA

- BSME Mechanical Engineering & Design — December 2024
- Graduated Cum Laude with 3.67 GPA
- Courses: Dynamics, Mechanical Engineering Design, Mechanics of Materials, Differential Equations and Linear Algebra, Thermodynamics, Mechanical Engineering Computation
- Activities: Baja SAE — Drivetrain Subteam
- COE Dean's list Spring 2022, Spring 2023, Spring 2024, Fall 2024
- Capstone project awarded Best in Track

Experience

MECHANICAL ENGINEERING CO-OP, ORBIS ELECTRIC; SANTA ROSA, CA — JULY 2023-DECMBER 2023

- Designed, assembled, and installed novel hybrid electric drivetrain components onto prototype vehicles
- Named as a co-inventor on multifaceted provisional patent for hybrid electric vehicles
- Traveled internationally to consult with a diverse range of clients
- Independently built and tested custom brake mounting brackets, lighting, suspension adapters, and a self contained water-cooling system for an electric McLaren MP4-12C conversion
- Prepared equipment for presentation to large OEMs including Volkswagen and Wabash
- Created concept design sketches and detailed patent drawings to inform design choices and protect sensitive IP

MECHANICAL DESIGN ENGINEERING CO-OP, MOTIV DESIGN; BOSTON, MA — JULY 2022-DECMBER 2022

- Collaborated directly with several clients to develop their ideas into functional CAD ranging from home appliances to specialty tools
- Named as an inventor in a pending utility patent (US20240197106A1)
- Conducted testing and implemented subsequent design changes on both early stage prototypes and at-market products
- Researched advanced rapid prototyping materials and managed orders of custom parts
- Expanded SolidWorks skills to include master sketches, surfacing, and multi-body parts
- Iterated products using principles of Design for Manufacturing with special consideration for injection mold tooling and ease of assembly
- Prototyped and modified parts by hand in a shop using various tools and milling equipment
- Supported the industrial design team alongside the engineering team, and learned about intersections between the two

TECHNICIAN APPRENTICE, EUROPEAN IMPORT SERVICE; WATCH HILL, RI — SUMMER 2021

- Conducted maintenance, repair, and restoration of European vehicles involving work with brakes, suspension components and modern electrical systems
- Extensive practical work with pneumatic, electric, and hand tools

MECHANICAL ENGINEERING INTERN, SEURAT TECHNOLOGIES; WILMINGTON MA — SEPTEMBER 2020-APRIL 2021

- Assembled custom and OTS parts on prototype metal additive manufacturing machinery
- Created and managed large assemblies in SolidWorks and led corresponding design reviews
- Collaborated extensively with electrical, optical, and mechanical engineers to iterate new designs
- Managed order logistics with machine shops
- Inspected critical incoming parts and organized into BOMs