

Adam Giordani

178 Pleasant St, Hanover, MA 02339 | (781)-689-5203

giordaniadam@gmail.com | LinkedIn: www.linkedin.com/in/adamgiordani | Portfolio: agiordanidesign.com

Work Experience

Randolph Eyewear – Product Development Engineer II

July 2025 – Present

- Lead end-to-end development of in-line and collaborative eyewear products and packaging from concept through production launch, managing timelines to ensure on-schedule delivery.
- Generate product concepts, financial models, and launch projections to support strategic decision-making and executive approval.
- Create and manage Bills of Materials (BOMs), maintaining full component-level cost visibility and SKU structure.
- Design detailed SolidWorks assemblies and production drawings to ensure fit, function, durability, and cosmetic quality.
- Oversee prototyping and iterative design refinement to achieve performance targets and manufacturing readiness.
- Develop in-house production tooling and fixtures to improve repeatability, process efficiency, and output quality.
- Collaborate cross-functionally with manufacturing, marketing, sales, customer service, and suppliers to qualify components, resolve technical challenges, and drive root-cause corrective actions for production and field issues.

Eaton – Manufacturing Engineer

Feb 2025 – July 2025

- Supported manufacturing engineering for sheet metal and assembly operations, including process planning, product routing, BOMs, and standard work instructions in ERP to optimize efficiency.
- Maintained the Dynamic Machine Management (DMM) system, updating tables, validating material demand, and supporting parts and tooling.
- Led additive manufacturing and continuous improvement initiatives to improve safety, ergonomics, throughput, and reduce fabrication time and costs.

KINEFAC CORPORATION – Mechanical Engineering Intern

May 2024 – Dec 2024

- Inspected parts for client runoff samples, factory acceptance test (FAT) of machinery
- Drafted CAD models (part drawings and process templates), finite element analysis, SolidWorks VBA
- Optimized ISO performance metrics and databases

PALMER FOUNDRY – Mechanical Engineering Intern

May 2023 – Aug 2023

- Developed standard operating procedure (SOP) and operator training for robotic casting finishing machine
- Designed part gating system for metal fluid flow and validated with heat transfer simulation
- Analyzed metallurgical samples to assess quality

TRUE ROBOTICS STARTUP – CAD Designer

Jan 2023 – Sep 2024

- Designed injection molded components/molds, competition course development for robotics education startup

ENTREPRENEURSHIP – CAD Design and Rapid Prototyping

Mar 2019 – Feb 2020

- Provided 3D modeling, design, and rapid prototyping services to clients across various industries
- Collaborated with clients to take their ideas from concepts to functional prototypes meeting project requirements

Projects

DESIGN OF ORTHOPEDIC IMPLANT FOR FRENCH BULLDOGS

Aug 2023 - May 2024

- Designed and developed a custom orthopedic implant plate and locking system for lateral humeral fractures in juvenile French Bulldogs, creating CT-derived 3D CAD models and performing finite element analysis to optimize structural performance.
- Conducted physical validation using Instron mechanical testing on implant assemblies and bone models to verify strength, load distribution, and correlation with simulation results.

STUDY ABROAD - MELBOURNE AUSTRALIA

Spring 2023

- Co-led sustainability initiative, “*Reducing Waste Through Innovation: Engaging the Melbourne Community via Plastic Bottle Cap Recycling*”, an initiative focused on plastic bottle cap recycling into useful products for the community.
- Named recipient of the Award for Academic Achievement Abroad from The Forum on Education Abroad

Education

WORCESTER POLYTECHNIC INSTITUTE (WPI) WORCESTER, MA

Bachelor of Science Mechanical Engineering

Master of Science Mechanical Engineering

CUMULATIVE GPA 3.48 | CLASS OF 2024

CUMULATIVE GPA 3.8 | CLASS OF DEC 2024

Skills

- **Design:** SolidWorks, PTC Creo, Adobe Illustrator, PDM/PLM, Keyshot, renderings, production drawings, in-house tooling design, packaging layouts, concept sketches and visuals
- **Manufacturing & Production:** DFM/DFA, ASME and ISO standards, GD&T, additive manufacturing, rapid prototyping, tooling design, fixtures, injection molding, casting, machining
- **Project Management & Processes:** BOM creation, project timelines, ERP systems, cross-functional collaboration