

ARYA SWAMY

Industrial & Product Designer • Mechanical Engineer

[linkedin](#) | [portfolio](#) | aryaswamyy@gmail.com | Pittsburgh, PA | Open to Relocation

PROFESSIONAL PROFILE

I move quickly from concept to working prototype, using hands-on experimentation and user feedback to test assumptions and refine designs. I combine creative thinking, technical problem-solving, and data-driven decision-making to develop products that balance user needs, technical feasibility, sustainability, and business viability.

EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Master of Integrated Innovation for Products & Services (MIIPS)

August 2026 - December 2027

- **Focus Areas:** Engineering, Human-Centered Design, Product Strategy, Innovation, Emerging Technology
- Merit Scholarship Recipient.

Rensselaer Polytechnic Institute

Troy, NY

B.S. in Mechanical Engineering & Design, Innovation, and Society

August 2022 - May 2026

- **Study Abroad:** Technical University of Denmark, Copenhagen | August 2024 - December 2024
- **Activities:** Design Innovation & Society Student Body, Society of Women Engineers, Indian Student Association, and RPI Rounak (Competitive Indian Dance Team Captain).

PROFESSIONAL EXPERIENCE

Digital Realty

Boston, MA

Strategy Intern - AI and Data Centers

June 2025 - August 2025

- Analyzed channel performance across Digital Realty's commercial and enterprise reseller programs, identifying growth opportunities and informing 2026 investment decisions.
- Evaluated partner engagement and trade show performance using pipeline, conversion, and ROI data to identify opportunities for more scalable investments.
- Translated complex market and performance analyses into actionable recommendations for senior leadership, balancing growth opportunities with business viability.

Dell Technologies

Hopkinton, MA

Product Management Intern - Maximizing the Power of AI for Sustainability

May 2024 - August 2024

- Identified and evaluated AI opportunities to advance Dell's sustainability strategy, considering customer value, technical feasibility, and emerging EU environmental regulations.
- Partnered cross-functionally with Marketing to reposition Dell's sustainability experience through an AI-focused website redesign.
- Developed an AI competitive intelligence prototype to explore how generative AI could support sustainability decision-making.
- Modeled renewable-energy-supported AI workloads at the data center infrastructure level, quantifying technical and environmental tradeoffs to inform product and infrastructure strategy.

CodeEasily

Remote

Python & Web Design Lead Instructor, Social Media Manager

2019 - 2022

- Designed and delivered hands-on STEM learning experiences, translating programming and web design concepts into accessible activities for elementary and middle school students.
- Led curriculum development across Python and web design, adapting content and teaching approaches based on student needs and feedback.
- Led social media strategy and content development across Instagram, Facebook, and LinkedIn, translating technical offerings into engaging, audience-focused communications.

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SELECTED PRODUCT & INNOVATION WORK

Self-Regulating Thermal Tiles (SRTs) - *Mechanical Engineering Capstone*

- Engineered a passive thermal management tile for data center server racks, using material selection and heat transfer principles to enable power-free heat dissipation.
- Applied thermal analysis and iterative prototyping, testing multiple material and geometry configurations, to balance performance, manufacturability, and scalability.
- Explored how engineering innovation can address the growing thermal demands of next-generation data center infrastructure.

MiniMart - *UX & Community Design Project*

- Designed an interactive digital map for the Troy Waterfront Farmers Market, consolidating vendor locations and information into a centralized, searchable experience.
- Conducted user and stakeholder research to identify challenges with navigating the market and discovering vendors, translating insights into key design requirements.
- Developed and iterated the final experience using Google My Maps, organizing vendor information to make market exploration more intuitive and accessible.

SoleMates - *Footwear Design Project*

- Designed a sustainable sneaker with removable, replaceable outsoles to reduce footwear waste while remaining accessible, durable, and comfortable.
- Prototyped and user-tested four distinct lacing/closure mechanisms, using participant rankings to identify the strongest concepts and combine them into a refined ratcheting knob design.
- Hand-constructed the final upper from canvas and sustainable fabric, iterating the mechanism through multiple 3D-printed revisions to improve fit, tactility, and ease of use.

CERTIFICATES

Google AI Essentials Specialization - *Completed (June 2026)*

Google AI Professional Certificate - *Completed (July 2026)*

SKILLS

Product Development

Human-Centered Design | Design Thinking | Product Strategy | Systems Thinking | Prototyping | User Research

Engineering

Mechanical Design | CAD (NX, Onshape, Rhino) | 3D Printing | Manufacturing | Testing & Validation

AI & Data

Generative AI | Python | MATLAB | Data Visualization

Design & Collaboration

Figma | Canva | Storytelling | Presentation Design | Cross-Functional Collaboration