

# Ryan Sweeney

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Morristown, NJ 07960

## EDUCATION

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### Rowan University

*Bachelor of Science in Mechanical Engineering*

Glassboro, NJ

*Sep. 2015 – May 2019*

## EXPERIENCE

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### Product Development Engineer

September 2022 – Present

*Camfil USA*

*Riverdale, NJ*

- **Market-Driven Invention:** Partner with segment managers on customer site visits to uncover opportunities, directly translating field observations into actionable design requirements for new product development.
- **Advanced Engineering Design:** Create complex, production-ready 3D models in SolidWorks and Onshape, applying rigorous Design for Manufacturability (DFM) standards for plastic injection molding and sheet metal fabrication.
- **Infrastructure Development:** Established and currently manage a specialized 3D printer farm (Modix Big Meter, SLA, FDM), building a permanent internal capability for large-format and high-fidelity modeling.
- **Rapid Prototyping:** Accelerate iteration cycles by personally fabricating functional prototypes using 3D printing and laser-cut plastics, physically validating design concepts prior to tooling investment.
- **Manufacturing Integration:** Coordinate directly with plant schedulers to commandeer mainline production equipment for trial runs, ensuring seamless transition from engineering prototype to mass-manufacturable product.
- **Lifecycle Ownership:** Operate with high autonomy to drive projects from initial ideation through to commercial launch, independently managing all technical and logistical hurdles to ensure successful product release.

### Support Engineer

June 2021 – September 2022

*OPEX Warehouse Automation*

*Moorestown, NJ*

- **Design for Serviceability:** Redesigned warehouse automation hardware with a specific focus on maintenance accessibility and operator ergonomics, incorporating direct feedback from field technicians to reduce service complexity.
- **On-Site Integration:** Traveled to customer facilities to oversee critical system installations, serving as the technical bridge between design engineering and field service teams to resolve real-time implementation challenges.
- **System Reliability:** Developed robust preventative maintenance schedules and optimized spare parts lists, ensuring consistent uptime for high-throughput warehouse automation systems.
- **Knowledge Management:** Established and maintained a comprehensive wiki in Confluence while working with the technical writing team to refine manuals and installation guides.

### Process Engineer

January 2020 – June 2021

*Phoenix Glass LLC*

*Pittsgrove Township, NJ*

- **Sole Technical Lead:** Served as the facility's only engineer for a 50-person team, holding responsibility for manufacturing process health, continuous improvement initiatives, and ISO 9001:2015 compliance.
- **Automation & Vision:** Doubled manufacturing throughput for COVID-19 test vials by designing, programming, and integrating a Cognex InSight machine vision system to automate critical tolerance inspections.
- **Equipment Modernization:** Revitalized legacy equipment by creating digital twin CAD assemblies to reverse-engineer components, designing precision upgrades that digitized analog machine functions without extended downtime.

## INTERESTS AND PROFICIENCIES

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**What I Enjoy** - Hiking, camping, bouldering, skiing, painting, woodworking, chess, website development

**Current Life Goals** - Adopt a dog, finish a half-marathon under 2 hours, finish my website "sweeney.town"

**Software** - Solidworks (CSWP), Solidworks Flow Simulation, Onshape, SolidEdge, Excel, Cognex InSight, 3D Printing Slicers, Lightburn, EtherCAT, Photoshop, Antigravity, Confluence, Jira, LaTeX