NATHAN R. CARPENTER, PMP

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PROJECT ENGINEER · PROJECT MANAGEMENT · HARDWARE & SOFTWARE SYSTEMS

SUMMARY

PMP-certified Project Engineer with a B.S. in Mechanical Engineering from Stevens Institute of Technology. Manages smart-building installations from site coordination through commissioning: directing general contractors and subcontractors, keeping work on schedule and to spec, and resolving the electrical and software issues that stall projects. Also builds full-stack tools in Python, Flask, JavaScript and MySQL, with hands-on experience in 3D modeling and additive manufacturing.

PROFESSIONAL EXPERIENCE

View Inc. — *Project Engineer* New York, NY | June 2022 – Present

- Led installation and commissioning of View Smart Glass systems on **15+ commercial projects** plus several residential properties.
- Led the install at **Charlotte Douglas International Airport**: managed the electrical and glazing subcontractors, programmed the system control panels, and tested every window for functionality.
- Serve as View's **only Project Engineer on the East Coast**, responsible for servicing **100+ existing clients**: diagnosing and resolving electrical and software faults with View's Field App and Commissioning Dashboard.
- Coordinated general contractors, electricians and glaziers to deliver installations on schedule; ran site visits, marked up engineering drawings, and verified work against construction specifications.
- Maintained a perfect safety record across multiple active job sites.

Stevens Institute of Technology — *Lead Researcher, Soft Matter Biomechanics* Hoboken, NJ | May 2021 – May 2022

- Led a biomedical research project producing 3D-printed brain models from MRI scan data.
- Built the imaging-to-print workflow, converting NIfTI scans into printable meshes with FreeSurfer, MeshLab and Meshmixer.
- Operated and maintained resin, FDM and industrial 3D printers (Phrozen, Flashforge, Creality, Stratasys).
- Developed a full-stack project documentation website (HTML, CSS, JavaScript, Flask, MySQL).

ANC Sports Enterprises — *Field Technician* New York, NY | Sept 2019 – May 2021

- Installed and maintained digital signage systems at major NYC transportation hubs, including the World Trade Center.
- Monitored LED displays and control software to keep advertising displays running without downtime, while studying engineering full-time.

Union Paving Construction Co. — *Project Management Intern* Mountainside, NJ | June 2019 – Aug 2019

- Supported site management and subcontractor coordination; performed materials takeoffs.
- Evaluated subcontractor bids and contributed to project planning.

EDUCATION & CERTIFICATIONS

Stevens Institute of Technology — B.S. Mechanical Engineering Hoboken, NJ | May 2022

Coding Dojo — Full Stack Web Development Certificate Remote | July 2022

Project Management Professional (PMP) — Project Management Institute 2026

SKILLS

Field & Systems	Commissioning, hardware/software troubleshooting, electrical systems testing, control panel programming
Project Delivery	GC & subcontractor coordination, drawing markups, bid evaluation, materials takeoffs, site safety, engineering documentation
Software	Python, Flask, JavaScript, HTML/CSS, MySQL
3D & Fabrication	FreeSurfer, MeshLab, Meshmixer, resin/FDM/industrial 3D printing