

Nate Randa

Engineer, Writer, Programmer, Climber, Skier, DJ | +1 (508) 314-1614 | work@nateranda.com | nateranda.com

Civil engineering and writing student specializing in transportation and mixed-use buildings, with experience in wood/steel/concrete design, traffic management design, programming, and proposal/report writing. Not actively seeking new employment.

EDUCATION

Worcester Polytechnic Institute

B.S. Civil Engineering and B.S. Professional Writing, **3.97/4.0 GPA**

Worcester, MA

Class of 2026

EXPERIENCE

Civil Engineering Intern

Cornerstone Energy Services, Inc.

May 2024 - Dec 2025

Worcester, MA

- Designed foundations, anchors, supports, trenches, and steel structures with *AutoCAD*,

RISA, *Tekla Tedds*, and *STAAD.Pro*

- Designed and analyzed a steel PEMB expansion using *STAAD.Pro*, *AutoCAD*, and *Python*, compliant with IBC 2018, ASCE 7-16, and AISC 360-16 codes

- Designed traffic management plans for energy infrastructure projects following MUTCD guidelines

- Developed internal structural design tools in *Python* and *Excel*

Writing Tutor

WPI Writing Center

Aug 2024 - Present

Worcester, MA

- Aiding students with research, composition, syntax, style, grammar, and communication

Architecture Intern

Plan-B Architects

Jun 2021 - Aug 2021

Sherborn, MA

- Planned interior equipment layouts for international healthcare and biotechnology clients

- Spearheaded elevation and overhead drawings in *AutoCAD* and *Excel*

PROJECTS

WPI Major Qualifying Project: “Design of Mixed-Use Buildings with Podium Construction”

In Progress

- Designing and analyzing a four-story mixed-use podium building using wood, steel, and concrete
- Performing cost-benefit analysis on alternative design and material choices
- Ensuring compliance with IBC, ASCE 7, AISC 360, ACI 318, AISI S100, and AWC NDS codes

WPI Major Qualifying Project: “Solarpunk: Dreaming a Sustainable Future”

In Progress

- Exploring the rhetorical effectiveness of solutions-forward climate fiction through contemporary ‘solarpunk’ novels

WPI Interactive Qualifying Project: “International Tour Groups at the British Museum”

March 2025

- Human subjects research that gathered, visualized, and synthesized group behavioral data
- Presented to British Museum Interpretation Team and WPI staff

WPI HUA: “Incelese: The Creation, Proliferation, and Normalization of the Incel Language”

February 2024

- Synthesized scholarly literature and performed novel rhetorical analysis of online ‘incel’ slang

SKILLS

Engineering & Computer Science

- Passed Fundamentals of Engineering (FE) Exam
- AutoCAD, Bluebeam Revu, RISAFloor, RISA3D, RISAFoundation, Tekla Tedds, RAM SS, STAAD.Pro
- Wood, concrete, steel, foundation, and traffic management design
- Python and GoLang; LaTeX and Typst typesetting; Linux, networking, and IT

Writing & Production

- Technical documents & proposals; scholarly research & synthesis
- Adobe Photoshop/AE/Illustrator, Affinity, Microsoft Office, Google Suite