

TIMOTHY R. BREINER

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 timothybreiner.xyz



LICENSES & CERTIFICATIONS

Fundamentals of Engineering (F.E.) Exam - Civil

[Verifiable Link](#) 


Passing grade on the F.E. exam, the preliminary exam to the Professional Engineer (P.E.) exam and licensure.

EDUCATION

Master's of Science (M.S.) in Civil Engineering (2020 - 2023)

Bachelor's of Science (B.S.) in Civil Engineering, *Summa Cum Laude* (2016 - 2020)

University of Hartford, GPA: 4.0 (Master's); 3.97 (Undergraduate)

[Master's Thesis](#)  - *An Approach to Calculating LLDFs for Horizontally Curved Bridges with Straight Girders*

[Undergraduate Capstone Project](#) 

INDUSTRY EXPERIENCE

Engineer-in-Training (2023 - Present)

Modjeski & Masters - Round Rock, TX

Bridge design and detailing for bridges throughout Texas. Heavy use of Microstation, Excel, PGSuper, and RISA 3D softwares.

Project Engineer (2021 - 2023)

Structural Consulting Services, P.C. - Brookfield, CT

Design and permitting of telecommunication installations in the New York Metro. Work included the design of steel equipment platforms, design of antenna/equipment mounting frames, detailing of structural steel connections, design of beam pockets into and posts down to existing building structures, drafting of construction drawings and permitting drawings using AutoCAD, compliance filings with NY government, regular contact with clients and expeditors, and routine site visits.

Infrastructure Summer Intern (2018)

Boehringer Ingelheim U.S. - Ridgefield, CT

[Performance Review](#) 

Involvement with site infrastructure and engineering projects under the supervision of full-time staff.

ACADEMIC EXPERIENCE

Research Assistant, M.S. Thesis (2020 - 2021)

University of Hartford Dept. of Civil & Environmental Engineering

Grant-funded research for M.S. Thesis topic.

Tutor (2018 - 2021)

University of Hartford Centralized Tutoring Center

Provided one-on-one and group tutoring services for courses in chemistry and engineering.

Guest Lecturer for ADT484 - Design of Reinforced Concrete Structures (2021)

University of Hartford Dept. of Architecture

Two week guest lecturer position while the course instructor was on leave. Responsibilities included temporary management of the class Blackboard page and answering student questions on assignments and course material.

PROFESSIONAL SKILLSET

Engineering Codes / Specifications

AASHTO LRFD BDS, ACI 318, AISC 360, ASCE 7, NYC Building Code, TxDOT Bridge Design Manual

Drafting Software

Autodesk AutoCAD LT & Civil 3D, Bentley Microstation V8i & Connect

Analysis & Design Software

Bentley RAM SBeam, CSI SAP2000 & CSiBridge, MATLAB, Microsoft Excel (Macros), PGSuper, RISA 3D

Composition Software

Adobe Acrobat DC, Bluebeam Revu, Foxit Phantom PDF, L^AT_EX, Microsoft Office Professional Suite

ADDITIONAL SKILLSET

Creative Software

Adobe Photoshop CC, Adobe Premiere CC, Audacity, Sony Vegas Pro

Linux & UNIX-Like Systems

Operating Systems: [Arch Linux](#), [Debian Linux](#), Apple macOS

Basic shell commands and scripting using Bash and zsh shells, terminal text editing with [Nano](#) and [ViM](#).

Web Development

[My website](#) was developed from scratch using Free and Open Source (FOSS) software and protocols. All webpages were created using exclusively basic HTML code and CSS styling. I host the web files and operate the site with a headless (command line only) Linux server running the Debian 10 operating system.

Languages

Japanese (approximately [JLPT](#) N5 level)