Steven Naliwajka

Software and Systems Engineer: MSECE, Kennesaw State University
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EXPERIENCE

Electrical Design Engineer
Jan 2024 to Present

Salas O'Brien *Atlanta, Georgia*

Build the engineering tooling in C# and PowerShell, alongside the electrical design work.

- Write a Revit automation plugin in C# against the Revit API that builds and exports COMcheck energy-code compliance forms straight from the model, packaged as a single install across multiple Revit versions.
- Moved code signing to Azure Trusted Signing: builds sign against a certificate held in Microsoft's HSM and timestamp each artifact, replacing a self-signed certificate that every machine had to be told to trust.
- Train and onboard new hires, two-plus years running: Revit and AutoCAD training, drawing standards and the in-house tooling.
- Write the supporting desktop tools in C#/WinForms and PowerShell: drawing-set reconstruction, an MEP schedule scanner, and a launcher that versions and updates each tool.

Owner
Aug 2025 to Present

Printect *Atlanta, Georgia*

3D-printing storefront, built and operated solo: catalog, quoting, print queue, shipping and payments.

- Wrote the full stack: catalog and cart, a quoting engine that slices an uploaded model and prices it, build-plate packing, a print queue driving the printers, label generation and payment capture.
- Live commercial rails: Stripe, PayPal and EasyPost postage, behind a self-hosted identity provider.

Computer Science T.I. (Teaching Instructor)
Aug 2023 to Dec 2023

Kennesaw State University *Marietta, Georgia*

Taught C#, Java, Python and SQL to students.

Intern
Feb 2023 to Aug 2023

3C Software *Atlanta, Georgia*

Supported ERP implementations using SQL and VBScript.

EDUCATION

M.S. Electrical and Computer Engineering (MSECE)
May 2025 to Dec 2026 (ongoing)

Kennesaw State University *Artificial intelligence and RF communications*

B.S. Electrical Engineering
2020 to Apr 2025

Kennesaw State University *Minor in Computer Science*

- Built FS-Testbed (www.fs-testbed.com), the KSU Field Station's live data dashboard: a Plotly Dash application that puts atmospheric readings, buried soil sensors and TV White Space signal measurements on one timeline. Self-hosted on my own hardware, and the data behind a first-author IEEE ANTS 2025 paper.

SKILLS

Languages: Python, Go, C#, Java, JavaScript, SQL, Bash, PowerShell, VBScript
Infrastructure: Proxmox, LXC / Docker, nginx, MikroTik / VLANs, WireGuard, GitLab CI/CD, Postgres, Let's Encrypt, Linux
Software: FastAPI, REST API design, WinForms, Revit API, OAuth / OIDC, Stripe / PayPal, Artificial intelligence

RESEARCH

Exploring Integrated Sensing and Communication using TV White Space Spectrum for Precision Agriculture
Dec 2025

IEEE ANTS 2025: First author

SELECTED PROJECTS

The home lab. A Proxmox cluster running two dozen self-written services, deployed through a private GitLab CI/CD pipeline.

The public site (www.naliwajka.com). Public site served from my own hardware: storefront, print portal, status and sign-in behind one nginx edge, deployed by CI/CD.

Printect storefront (www.printect.net). Upload a model, get it sliced, quoted, packed onto a plate, printed, labelled and paid for. Live Stripe, PayPal and EasyPost rails.

HONORS AND AWARDS

FE (Electrical and Computer). NCEES, Mar 2025.

1st place, Fan Engagement, KSU Sports Innovation Hackathon. Kennesaw State University, Feb 2025.

2nd place, Mobile Apps for Well-Being, KSU Hackathon. Kennesaw State University, Mar 2025.