Dajan Lyttle

Contact Information

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1001 4th Ave, Suite 3100
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Interests

Power Systems, STEM Education, Renewable Energy, Microgrids, Energy Resiliency

Education

University of Washington Tacoma, Tacoma, WA, USA — Jun 2023
Bachelor of Science in Electrical Engineering
GPA: 3.8

Certifications

Engineering in Training - State of Washington BRPELS — Jul 2023

Technical Skills

Power Engineering Software: ETAP, PSCAD, PowerWorld Simulator, MATLAB Simscape Electrical
Engineering Software: AutoCAD, AGi32, PLECS, Revit, BlueBeam, Cadence
Programming and Scripting Languages: Java, Python, MATLAB, Verilog, SQL, HTML, CSS

Languages

English: Native
Spanish: Intermediate

Memberships

Institute of Electrical and Electronics Engineers - IEEE — Jun 2022 – Present
Power and Energy Society (IEEE-PES) — Jun 2023 – Present
Eta Kappa Nu (IEEE-HKN) — Jun 2022 – Present

Engineering Experience

WSP USA, Seattle, WA, United States. — Feb 2023 – Present
Assistant Consultant, Electrical Engineer — Jul 2023 – Present

- Assist with design of medium voltage transmission and distribution systems
- Assist with electrical design for hydroelectric and pumped storage hydropower projects

Electrical Engineering Intern — Feb 2023 – May 2023

- Performed feasibility study for implementation of electric aircraft chargers at a regional airport
- Performed feasibility study for implementation of a BESS for a residential villa

HNTB, Bellevue, WA. United States. — Aug 2022 – Sep 2022
Electrical Engineering Intern

- Designed lighting systems for major intersections and highway interchanges.
- Aided with design of temporary power and lighting systems for use during construction.

Educational Experience

University of Washington Tacoma, Tacoma, WA. United States. — Jun 2021 – Jun 2023
Quantitative Consultant

- Tutored UW Tacoma students in math, physics, statistics, and computer science.

Projects

Self-Healing Power Distribution Systems for Microgrids — Sep 2022 – Jun 2023
University of Washington Tacoma
Senior Project (TEE 482) at University of Washington Tacoma. Developed algorithm for self-healing microgrid which reroutes power automatically in event of an emergency. Created sample microgrid and implemented algorithm using MATLAB Simscape Electrical.

Programmable Processor May 2022 – Jun 2022
University of Washington Tacoma
Digital Systems Design (TCES 330) final project. A six-instruction processor programmed with SystemVerilog and implemented on an FPGA board which can hold, add, subtract, load, and store 16-bit Hexadecimal numbers.

Personal Website (lyttdaj20.github.io)
Personal Website created with HTML/CSS.

Awards and Honors

Annual Dean's List (x2) - University of Washington Tacoma Jun 2022, Jun 2023
Gold Merit Scholarship (x2) - University of Washington Tacoma Aug 2020, Aug 2021