

BEN BROWN

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OBJECTIVE

Seeking an internship or co-op position in order to further my skills as an Electrical Engineer. Passionate in the fields of Machine Learning, Statistics, and Ethical AI. **Available Summer of 2023**

EDUCATION

Bachelor of Electrical Engineering, Rochester Institute of Technology (RIT) Expected 2024

Relevant Coursework: Applied Statistics, Artificial Intelligence, Differential Equations, and Physics.

GPA: 3.04

SKILLS

Software Python, PyTorch, TensorFlow/Keras, Jupyter, C/C++, MATLAB, Assembly (MSP430)

Hardware Circuit Analysis (AC/DC), SMT/THT Soldering, PCB Design (Altium), Verilog/VHDL

EXPERIENCE

AI Developer Jan 2022 - Aug 2022
TIMET Morgantown *Morgantown, PA*

- Collaborated with several groups in producing technology that simultaneously simplifies operator's jobs, and potentially saves the company seven figures annually
- Employed several Time Series prediction technologies, including fundamentals (RNN, LSTM, GRU) and state of the art (SCINet, FEDformer)
- Programmed with set standards and proper documentation to ensure proper readability by future coops and engineers
- Designed custom genetic algorithm to optimize XGBoost hyperparameters in production use

Podcast Manager Oct 2019 - Jan 2022
Reporter Magazine *Rochester, NY*

- Lead an interdisciplinary team of creators to produce engaging content regularly
- Execute self-driven projects where creativity is encouraged
- Complete projects with equipment including Adobe Premiere, Davinci Resolve, Audacity, and many types of camera and audio equipment

PROJECTS

Dream Presenter (RIT NXT) Use multiple EEG datasets to produce a GAN/diffusion-style architecture that can generate images from dreams based on Sleeping State neural activity. Scheduled for introductory showcase at this year's Imagine RIT event.

RISC Processor Constructed and debugged a working RISC processor in Verilog that could read and execute assembly code.

LEADERSHIP

RIT IEEE (STB20351 - Chair) Sep 2020 - Jan 2022

- Serve as Chair of RIT Student Branch in order to restructure the club for success
- Generate publicity, as well as complete other administrative tasks
- Hold weekly meetings to ensure clarity and vision is shared by all Executive board
- Work on club constitution with the rest of the Executive Board