

Sean V. Saliga

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📍 Clearwater, Florida, 33761, United States

👤 PROFILE

Recent Physics and Math graduate with various skills from Data Analytics, Machine Learning, CAD, Circuitry, etc. Wishing to put to use an affinity for coding, science and research for improving the technology of today.

🎓 EDUCATION

Bachelor's in Physics, University of Florida 08/2020 – 05/2023 | Gainesville, Florida
3.84 GPA, Physics Major & Math Minor

Associates's in Arts, St. Petersburg College / Countryside High School 08/2018 – 05/2020 | Tarpon, Florida
4.0 GPA, Aerospace Engineering, Graduated with Diploma and AA

👛 PROFESSIONAL EXPERIENCE

Junior Electrical Engineer, Electronic Design Associates 05/2023 – Present | St. Petersburg, Florida

- Constructed/tested/fixed various printed circuit boards (PCBs) layouts and components, and verified proper operation in accordance to their given schematics and IEC standards
- Operated the following tools: oscilloscopes; spectrum analyzers; DC power supplies; signal generators; High voltage DC supplies; soldering irons; air soldering; multimeters

Research Assistant, University of Florida 08/2021 – 05/2023 | Gainesville, Florida

- Conducted experiments and data analysis of silicon optical properties
- Collected various kinds of data on optical crystals for use in Faraday Isolators in the LIGO detector
- Simulated alternate forms of the LIGO optical layout in Python to test designs for future detectors

Math Tutor, Mathnasium 01/2019 – 08/2021 | Clearwater, Florida

- Managed teaching 4-5 students simultaneously, each in a different subject of Mathematics

🔌 MCNETS PROJECT

Custom Machine Learning Python Package 08/2022 – Present

An independent project that has consisted of making a very universal Machine Learning (ML) package from few other packages (NumPy and Matplotlib.PyPlot). Despite the high-level nature of Python, nets of over 1 million parameters have been used with ease for applications such as from playing chess to curve fitting.

For more, visit:

- PyPI Page: pypi.org/project/mcnets/ 📄
- GitHub Page: <https://github.com/SciCapt/Monte-Carlo-Neural-Nets> 📄

🧠 PRIMARY SKILL SET

Programming

- Python / MatLab / C++ / HTML
- Machine Learning / Tensorflow
- Data Analysis / SKLearn
- Physics simulations

Computer Design

- LTSpice (Circuit simulations)
- SolidWorks
- TinkerCAD
- 3D Printing / calibration

Soft Skills

- Problem Solving
- Dedication
- Patience

🔧 HOBBY PROJECTS

Personal Projects Page: (<https://scicapt.github.io/Projects>) 📄

- **Chess and Chess AIs in Python** (https://github.com/SciCapt/Chess_Completed) 📄
- **Custom Engine Designing / Building** (<https://scicapt.github.io/DiscEngine>) 📄
- **Custom Radio Transmitter / Receiver** (<https://scicapt.github.io/Radio>) 📄