

Daniel Semchin: Biomedical Engineer

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Bio:

My goal as an engineer is to produce the best possible work to further the field. I wish to obtain an internship or entry-level position in the biomedical engineering industry that utilizes my skills in service of my goal.



Education:

Bachelor of Biomedical Engineering w/ minor in Artificial Intelligence, Illinois Institute of Technology (IIT), expected graduation May 2024.

International Baccalaureate Diploma Recipient

Leadership Experience

Biomedical Engineering Society @ IIT

President

2022-2023

- Built a motivated team by encouraging extreme ownership over the operation of the society.
- Established continuity between future presidents to ensure the organization can produce itself

Treasurer

2021-2022

- Negotiated budgets larger than previous years for greater events
- Created standardized bookkeeping methodology for subsequent treasurers

Department Relations & Outreach Chair

2020-2021

- Communicated efficiently and succinctly to reduce the amount of back-and-forth

Work Experience

Digital Artist – Self Employed

2014-2022

- Negotiated budgets larger than previous years for greater events
- Created standardized bookkeeping methodology for subsequent treasurers

Projects

Arduino Electroencephalogram

2022

- Applied knowledge of active filters and electronics to read biosignals from the heart

Blackjack Self Reinforcement Learning Agent

2021

- Built a blackjack program in C++ and then had an agent teach itself to play using Python

Skills

- Strong with Python, C++, and MATLAB
- Familiar with R, Java, and C#
- Familiar with Datamining/ML algorithms
- Can model with Autodesk software
- Strong communication and interpersonal skills. Ability to work effectively in a team.
- Knowledge of laboratory equipment for physiological and electronic measurements.

Relevant Courses

- Quantitative Physiology
- Quantitative Neural Function
- Biomaterials
- Bioelectronics Laboratory
- Biostatistics/Datamining

Additional Skills

- Ukrainian Speaking

For any more information about me please reach out by any means and thank you for your consideration