

# Joshua Khan

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## EDUCATION

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### New York Institute of Technology

Old Westbury, NY

*Masters of Science in Electrical and Computer Engineering*

09/2024 – 05/2025

Classes taken: Silicon Integrated Circuit Theory and Fabrication, Signal Processing, Introduction to VLSI, Probability and Stochastic process, Computer Architecture.

*Bachelors of Science in Electrical and Computer Engineering*

09/2019 – 05/2024

- Graduated Cum Laude
- Presidents Honors List 2021 and Deans Honors List 2020-2021
- T.K. Steele Enrichment Award Recipient and T.K. Steele Scholarship Recipient

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## EXPERIENCE

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### Robert Derector Associates | Electrical Engineer

New York, NY | 04/2024 – Present

- Designed power distribution, lighting, and fire alarm plans for commercial MEP projects using Revit and CAD up to the national electric code standards.
- Visited job sites to provide consultation on the potential for new electrical installation based on existing conditions.

### Amazon | Area Manager Intern

Riverside, CA | 06/2023 – 08/2023

- Ran shifts of 50+ associates in the receiving department of 1 million square foot facility while leading multiple site projects to increase efficiency in the facility.
- Led project to move the procurement and maintenance departments into new areas of the facility, inclusive of drafting new floor plans, creating project timelines, allocating labor, and gaining approval for new site-specific safety standards.
- Led stowing department redesign to increase space efficiency and safety, inclusive of being in charge of redesign and standardization of site wide powered industrial truck parking spaces.

### Thomas S. Brown Associates INC | Electrical Technician

New York, NY | 02/2022 – 08/2022

- Installed cables to various HVAC control devices in order to convert old pneumatic control systems into electric control systems based on electrical schematics and other construction drawings while following standard building codes.
- Maintained a safe, organized, and fully stocked job site, ensuring the completion of projects within the expected timeframes.

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## PROJECTS AND RESEARCH

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- 1.) *Functional Near Infrared Spectroscopy for Brain Imaging, Capstone Project*
  - Research leading to the development of a wearable FNIRS device for imaging the brain based on oxygenated hemoglobin levels.
  - Designed circuit for FNIRS device including components such as a microcontroller, DAC, ADC, transimpedance amplifiers, and photodiodes, leading to the development of a PCB.
- 2.) *Thermo-electric Device Implementation for Data Center Energy Efficiency, Project*
  - Prototype thermoelectric system for implementation into data centers to increase energy and cost efficiency.
  - Designed circuit for system based upon existing infrastructure within facility.

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## SKILLS

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### Software:

Multisim, Spice, Revit, Matlab, Word, Excel, Auto CAD, KiCAD

### Other:

Drafting, Project Management, Technical Communication, Electrical Design

### Programing Languages:

Java, Python, Assembly, C, HTML, CSS