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DEAN KURUZOVICH

WORK HISTORY

CALDARIUM DEVELOPER   **2025 - 2026**
Caldarium   *RCOS @ RPI - Troy, NY*

- Collaborated on a 2-person team labeling PDFs in Label Studio to train an AI NER model for hospitals. Independently developed a Python tool leveraging the OpenRouter API to automatically extract and annotate text from PDFs, reducing annotation time from 5 minutes per file to under 5 seconds while improving accuracy, saving hours of labor and accelerating project development.

SUMMER CAMP COUNSELOR   **2024 - 2026**
Camp Saradac   *Saratoga Springs, NY*

- Supervised and led daily activities for groups of 10–30 children ages 5–12.

CHESS INSTRUCTOR   **2023 - 2024**
Beta Community Programs   *Saratoga Springs NY*

EDUCATION

Rensselaer Polytechnic Institute - Troy, NY   **Sep 2025 - 2029**

Bachelor Of Engineering in Electrical Engineering - Minor In Physics

RELEVANT COURSEWORK:

- **Embedded Control**- introduction to the microprocessor as an embedded element of engineering systems. Control of dynamic systems and sensor interfaces; analog-digital conversion; parallel input/output; driver circuits, modular programming, and subsystem integration.
- **Computer Components and Operations** - Design oriented introduction to computer components and operations. Standard codes, number systems, base conversions, and computer arithmetic.
- **RCOS -** Introductory course provides the fundamental skills required to work as a team on an open source project; such skills include version control via Git, team communication techniques, and how to develop, test, and commit changes to an existing Git repository.
- **Introduction to Differential Equations**
- **Introduction to Electrical, Computer, and Systems Engineering**
- **Quantum Physics I**

SKILLS

ENGINEERING: Electronic Circuit Design, Embedded Systems, Embedded Linux, PCB Design, Torque Modeling / Linkage Analysis, Robotics

CAD: Fusion 360, Siemens NX, KiCad

PROGRAMMING: Python, C, MATLAB, Javascript-HTML, Java

LEADERSHIP/CLUBS

PRESIDENT - BLUE STREAKS ROBOTICS CLUB - *Saratoga Springs High School*

- Led the design and development of a robot and guided an 8 person team to the VEX Robotics State Championship.

MEMBER - RPI DBF/AEROMODELING CLUBS - *Rensselaer Polytechnic Institute*

- Assisted in designing and building electronics systems for competition model aircraft.

LINKS

Portfolio Website: deankuruzovich.github.io, GitHub: github.com, LinkedIn: linkedin.com.