

# Living Lab Fourth Year Fellows

CET4811

## COMPUTER CONTROLLED SYSTEM DESIGN II

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Computer Engineering Technology

New York City College of Technology

# COURSE DESCRIPTION

- A capstone course dealing with design and programming concepts of particular importance for computer controlled systems.
- In the lab, students may choose to utilize their concept designs from CET 4711, or to design a new device from scratch.
- Students apply their knowledge of component design, systems design, control theory and computer programming to carry out detailed design of their device or system, build a working model and program a computer to perform the desired measurement and/or control functions.



# STUDENT LEARNING OUTCOME

- be able to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined engineering technology activities
- be able to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives



# STUDENT LEARNING OUTCOME

- be able to identify, analyze, design and implement hardware and software computer systems as well as control systems
- be able to function effectively as a member or leader on a technical team



# HIGH IMPACT EDUCATIONAL PRACTICES

- Capstone course and projects
- Learning Communities
- Collaborative assignments and projects
- Writing-intensive course
- Open Digital Pedagogy (the OpenLab)



# ASSESSMENT

- Rubrics
- Presentation
- Final project report

