

JUMPSTART YOUR ENGINEERING CAREER

UMD CYBER-PHYSICAL SYSTEMS ENGINEERING

CPSE SUMMER PROGRAM - 2026

5-week immersive program on IoT and Cyber-Physical Systems Engineering.
July 13th to August 14th, Monday-Thursday, 10am-4pm

- Hands-on experience in electronics, sensors, microcontrollers, and more.
- **Collaborate on projects from ideation to rapid prototyping** in a real-world design setting, culminating in a Demo Day showcase.



With only **50 spots available**, this **competitive program** requires applicants to demonstrate a solid commitment to STEM education.

It is open to **MD high school, community college, & university students with rudimentary programming skills**. Letter of recommendation are optional but highly recommended.

INFO AND DUE DATES



Materials: We provide supplies, including electronic accessories, Arduino/Raspberry Pi/NVIDIA Jetson Nano boards, and cloud hosting.



Tuition: \$200 fee for in-state applicants (upon acceptance into the program).



Deadline: Applications are due by **April 1st, 2026**

FEARLESSLY FORWARD

ANYONE INTERESTED
CLICK HERE
OR **SCAN THE CODE**



*This UMD summer program will be located in **Rockville, Maryland***



LEARN ENGINEERING

PROJECT DEVELOPMENT

- Ideation
- Team Formation
- Agile Development

BASIC ELECTRONICS

- Components
- Circuits
- Wiring & Soldering
- Instruments & Troubleshooting

CODING

- Python
- GUI, DB, & API Development
- Sensor Programming & Hardware Interfacing

AND MUCH MORE

- Microcontrollers & Single-Board Computers
- IoT & CPSE Fundamentals
- Message Queue Telemetry Transport (MQTT)
- Introduction to Machine Learning and Computer Vision