

**Department of Electrical and Computer Engineering
Fall 2023**

Eleventh ANNUAL

**EECE Design Project Show
Poster Session and Demonstrations**

COEN 4720 Embedded Systems

EECE 3015 Intro to Microcontrollers Laboratory

ELEN 3110 Electromagnetic Fields 1

ELEN 3035 Electronic Projects Laboratory

Thursday, December 7, 2023

Session 1: 9:00 – 10:30 am (COEN 4720, ELEN 3035)

Session 2: 12:00 – 1:30 pm (COEN 4720, ELEN 3110, EECE 3015)

Session 3: 3:00 – 4:30 pm (ELEN 3110, EECE 3015)

EN 388, EN 391, and EN 395

****** All Sessions -- Station setup 30 minutes prior to start *****
(8:30 am, 11:30 am, 2:30 pm)**

Download a PDF copy of this Program from:



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**Session 1 - Thursday 9:00 – 10:30 am**

**Rooms 388 – projects from COEN 4720**

|                             |                       |
|-----------------------------|-----------------------|
| Deighton-McDonough-Tscheppe | Remote Nunchuck Mouse |
| Shanahan-Zielke             | Bluetooth Tic-Tac-Toe |
| Minick-Roesler-Rouse        | Bluetooth Messenger   |

**Room 395 – projects from ELEN 3035**

|                          |                                    |
|--------------------------|------------------------------------|
| Kurtovic-Sifuentes       | Solar Tracker                      |
| Hodges-McKeever-Toennies | Open Door Alarm                    |
| Lukas- Singer            | Solar-Powered USB Battery Charger  |
| Taylor-Dalhoe            | Motion Sensor Door                 |
| Banda-Bonetti-Brockman   | Simple FM Receiver Radio           |
| Gonzalez-Solveson        | Variable Speed DC Motor Controller |

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Session 2 - Thursday 12:00 pm – 1:30 pm

Room 388 – projects from COEN 4720

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|-------------------------|-----------------------------|
| Accardi-Pauly-Pawlowski | Bluetooth LCD Image Display |
| Timmins-Voight | Collision Simulation |
| Benigni-Garcia | Pattern Memory Game |

Room 391 – projects from ELEN 3110

| | |
|------------------------------|-------------------------|
| Alzamli- Davila | Electromagnet |
| Borst-Singh | Step-Down Transformer |
| Castro-Del Rosario-Samaniego | Electromagnetic Speaker |
| Bohnart-Ibarra | Simple Electric Motor |

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**Session 2 - Thursday 12:00 pm – 1:30 pm (continued)**

**Room 395 – projects from EECE 3015**

|                   |                             |
|-------------------|-----------------------------|
| Bohnart-Samaniego | Mystery                     |
| Butler-Winklosky  | PSoC IT!                    |
| Castro-Singh      | Home Safety Alarm System    |
| DeWeerd – Meija   | Temperature Triggered LED   |
| Ibarra-Stevens    | TFT Display Investigation   |
| Jamiola-Singer    | Motion Sensor – LED & Alarm |

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Session 3 - Thursday 3:00 – 4:30 pm

Room 391 – projects from ELEN 3110 and EECE 3015

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|------------------------|----------------------------|
| Accardi-Gonzalez-Pauly | Metal Detector, |
| Bonetti-Deighton-Doyle | Electric Motor |
| Esposito-Torres | Ampere's Law Demonstration |
| Ganje-Read-Gonzalez | Hydration Alert System |
| Doyle-Zintchenko | Candy Dispenser |
| Esposito-Samuelson | Hobby Motor Dolly |

Room 395 -- projects from EECE 3015

| | |
|------------------------|--------------------------|
| Anderson-Moses | Automatic Trash Can |
| Cave-Del Rosario | RGB Code |
| Davis-Milas | Basketball Shot Tracker |
| Maslowski-Troff | Skateboard Speedometer |
| Ayala-Fonseca | Microsafe |
| Bell-Davila | Morning Rays Alarm Clock |
| Gardetto-Vander Heider | Automatic Pet Feeder |