

Department of Electrical and Computer Engineering
Fall 2024

12th 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 5, 2024

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 365, 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:



Session 1 - Thursday 9:00 – 10:30 am

Rooms 388 – projects from COEN 4720

Jamiola-Winklosky	Nucleo Says
Esposito-Mejia	Bluetooth Motor Control System
Cave-Gardetto	CyberPong 2077

Room 391 – projects from ELEN 3035

Alzamli-Davila-Singh	Urine for You
Bohnart-Castro	Breathing Circuit
Doyle-Kubic	Mandalorian Helmet Mic
Rosario-Ibarra	Plant Waterer

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

Room 365 – projects from EECE 3015 and ELEN 3110

Corlett-Wagner (*)	Color Sorter
Abduljalil-Krzak (**)	Coded Lock
Barrera-Winn (*)	Simon Says
Bronokowski-Krzak-Schlaefer	Musical Instrument Tuner
Barrera-Corlett	Isolation Transformer
Mora-Williams	Metal Detector

Room 388 – projects from COEN 4720

Butler-Moses	Wii Pong
Limon-Stevens	TinyOSaurus
Samuelson	Asteroids Minigame

Room 391 – projects from EECE 3015 and ELEN 3110

Harlan-Tolczyk	Card Scanning Lock
Land-Mrusek	Oscillating Fan
Thul-Torres (*)	Ultrasonic Ruler
Giannetos-Harrill	Candy Dispenser
Reid-Virk	Variable Electromagnet
Islas-Paz Lopez	Speaker
Keller-Thul	Field Strength Detector

Room 395 – projects from EECE 3015 and ELEN 3110

Bolz-LoFaro (*)	CapSense Catapult
Borst-Mora	Temperature Controlled Fan
Casey-Keller	Simon Says
Maurya-Ruffolo	Environmental Monitor
Salomon-Ruiz – Serdiuk	Range Finder
Flores-LoFaro	Spark Gap Transmitter

Session 3 - Thursday 3:00 – 4:30 pm

Room 365 – Projects from EEE 3015 and ELEN 3110

Blair-Riter (*)	Barometric Height Sensor
Anderson-Sayad (*)	Temperature Controlled Fan
Bebej-Yah (*)	Automatic Light Sensor
Anderson-Davis	Motor Simulation
Bebej-Gerdes-Kuntaras	Electromagnetic Powered Train
Bolz-Filer-Riter	Creating a Magnetic Field

Room 388 – Projects from EECE 3015 and ELEN 3110

Andrzejak-Connelly	PSoC Encoder & Decoder
Burk-Thibaudeau (*)	Morse Code Transmitter-Receiver
Passanante-Oladapo	ChatGPT Communication
Andrzejak-Thibaudeau	Electromagnetic Pickup

Room 391 –Projects from EECE 3015 and ELEN 3110

Baker-Flores	Motion Sensor Alarm System
Kenny-Schlaefer	Santa Cookie Alert
Kuntaras-Nowak	Occupancy Sensor
Alzami-Mendrycki (*)	No-Touch Hand Sanitizer
Mendrycki	Coil Accelerator

Room 395 -- projects from EECE 3015 and ELEN 3110

Ahmed-Smith (*)	Catch the Shells
Fanapour-Gerdes (*)	Electronic Lock
Filer-Kim-Ryazanov (*)	Environmental Data Logger
Mika-Zigmant (*)	Ultrasonic Measurement System
Serdiuk-Zigmant	Guitar Pickup
Fanapour-Nowak-Smith	Magnetic Door Lock