

# SEMET Technical Project Showcase - Fall 2024

Version 5

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The following electronics, computer engineering, and electromechanical automation projects are anticipated to be shown at the SEMET Technical Project Showcase on Wednesday, December 11, 2024.

- See [photos](#) from the event.

## TPJ452: EEN Program

- See [photos](#) from the EEN groups.

[N01. Basic Home Control Model of Light and Fan](#) - Yang S. & Sujan S.

[N02. Smart Commercial Kitchen](#) - Gurjashan S. & Krishi P.

[N03. Smart Home Security and Automation System](#) - Hirunika J. & Kalpa S.

[N04. Motion Activated Night Light Alarm](#) - King T. & Tsz L.

[N05. GPS Tracking System with Raspberry Pi 3B+](#) - Bibek P. & Manjit P.

## TPJ655: Joint EET & ECT Programs

- See [photos](#) from the EET & ECT groups.

[Q01. Reality Bridge: Industrial I/O Virtualizer](#) - Barbod F. & Shaghayegh A.

[Q03. SketchNC: DIY Manufacturing Tool](#) - Hamza H.

[Q04. Band in a Box](#) - Greg R. & Shenal A.

Q05. Harry Potter Sorting Hat - Kaung S. & Basant B.

Q06. Cognitive Brain Test: The Game - Joel L. & Reiner U.

C08. Next-Gen Baby Cradle - Devansh S. & Mohammad P.

C09. Anti-Car Theft System Using GPS & GSM Technology - Gajan K. & Ayush M.

C10. "Place - Tap - Go" Smart Self-Checkout Kiosk - Bao T. & Warnakulasooriya S.

C11. Interactive Virtual Assistant for Windows - Fenil L.

C12. Safe Home - Navya M. & Amoldeep S.

C13. RFID & Face Recognition Security for Server Room Access - Dev S. & Shah P.

C14. Smart Agricultural Plant Irrigation Robot - Alex P. & Nandini P.

C15. Project Citadel: Nineveh Shadow Ops Facility - Nino O.

### TPJ653: EMA Program

- See [photos](#) from the EMA groups.

D01. Cable Twister - Rene B. & Paolo Q.

D03. Weighing and Sorting - Manh. N. & Hoang V.

D04. Robotic Storage Unit (RSU) - Andres D. & Jose J.

### What is TPJ?

"TPJ" is the Thesis Project (or capstone project) course in each of the final semesters of our EEN, EET, ECT, and EMA programs. Each student project team above spent 12 weeks researching, designing, and constructing a working capstone project, with guidance from their respective TPJ professors:

Jason Wang (452), Karen Craigs (655), Ben Shefler (655), and Fabio Costa (653).

tags : fall2024, semetshowcase