

# Photos - Fall 2024

Version 2

Published 4/4/2025 by **Fabio Pricinato Costa** Last updated 4/4/2025 11:06 PM by **Karen Craigs**

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

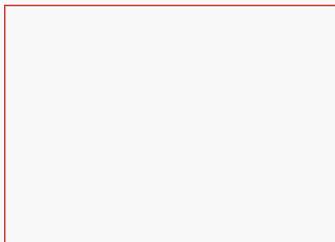
## SEMET Technical Awards

We are so proud of all our students for participating at the SEMET Showcase.

Congratulations to the winners in each of the SEMET Technical Awards categories, as voted for by our visiting industry partners, OACETT members, and select Seneca faculty who attended the event.

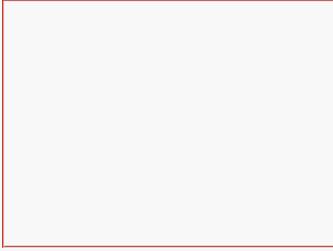
Thank you to **OACETT Toronto Central Chapter** who sponsored the "Best in Showcase" SEMET Technical Award this semester. Shalevia Briscoe (TCC Chair) and Karen Craigs (TCC Vice-Chair) presented the winners with one-year free student memberships to the OACETT organization along with OACETT swag. Thanks also to the attending TCC volunteer members: Mark LaFleche, Jordan Wallace, and Anastasia Piskunova.

**Best in Showcase:** Rene and Paolo. (Award sponsored by OACETT Toronto Central Chapter.)



The organizers of the Showcase, Fabio Costa and Karen Craigs (also faculty supervisors for capstone projects this semester), presented the SEMET Technical Awards for each program category: TPJ452, TPJ655, and TPJ653.

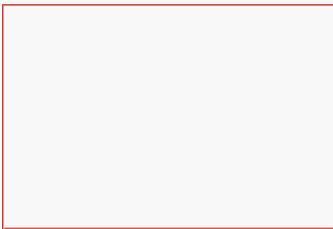
**Best in TPJ452:** Hirunika and Kalpa.



**Best in TPJ655:** Barbod and Shaghayegh.

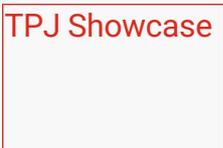


**Best in TPJ653:** Paolo and Rene.



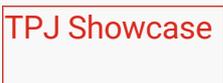
**TPJ452: EEN Program**

**N01. Basic Home Control Model of Light and Fan** - Yang S. & Sujan S.



**N02. Smart Commercial Kitchen** - Gurjashan S. & Krishi P. (*absent*)

**N03. Smart Home Security and Automation System** - Hirunika J. & Kalpa S.



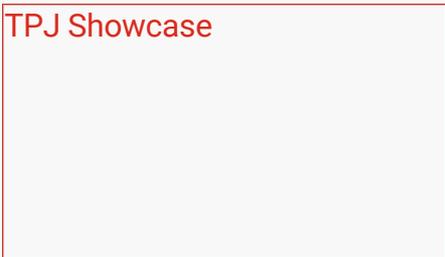


N04. Motion Activated Night Light Alarm - King T. & Tsz L.

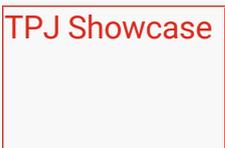


N05. GPS Tracking System with Raspberry Pi 3B+ - Bibek P. & Manjit P. (*absent*)

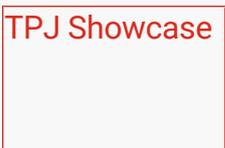
**TPJ655: Joint EET & ECT Programs**



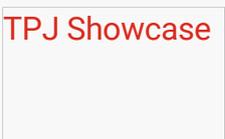
Q01. Reality Bridge: Industrial I/O Virtualizer - Barbod F. & Shaghayegh A.



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.

TPJ Showcase

TPJ Showcase

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

TPJ Showcase

TPJ Showcase

C08. Next-Gen Baby Cradle - Devansh S. & Mohammad P. (*absent*)

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

TPJ Showcase

TPJ Showcase

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

TPJ Showcase

TPJ Showcase

C11. Interactive Virtual Assistant for Windows - Fenil L.

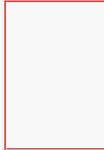
TPJ Showcase

TPJ Showcase

C12. Safe Home - Navya M. & Amoldeep S. (*absent*)

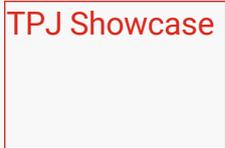
C13. RFID & Face Recognition Security for Server Room Access - Dev S. & Shah P.

TPJ Showcase

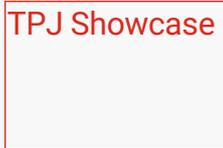


C14. Smart Agricultural Plant Irrigation Robot - Alex P. & Nandini P.

TPJ Showcase

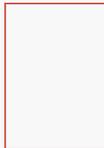


TPJ Showcase



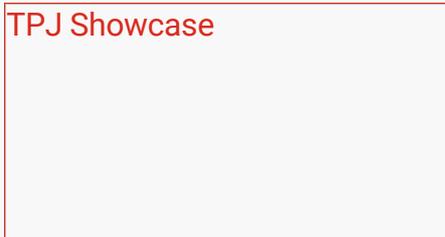
C15. Project Citadel: Nineveh Shadow Ops Facility - Nino O.

TPJ Showcase



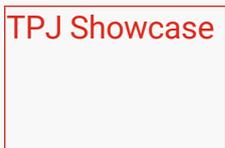
**TPJ653: EMA Program**

TPJ Showcase



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

TPJ Showcase



TPJ Showcase

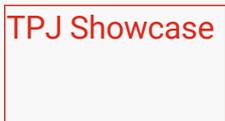


TPJ Showcase

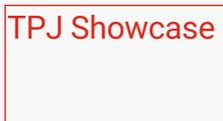


D03. Weighing and Sorting - Manh. N. & Hoang V.

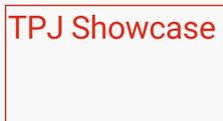
TPJ Showcase



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

TPJ Showcase

TPJ Showcase

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**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 : semetshowcase, winter2024