

Faculty of Engineering

ASPIRE Summer Research Program 2026-2027

Project Title: Designing Design Thinking for Electrical Engineers

Supervisor(s): James Salamy

Department: Electrical and Computer Systems Engineering

Email: james.salamy@monash.edu

Website profile of project supervisor: <https://www.monash.edu/engineering/jamessalamy>

<https://www.monash.edu/engineering/departments/ecse/research/research-themes/electro>

Objective

Build a deeper understanding of the relationship between teaching approaches, learning experiences, and the development of 'engineering mindsets' in electrical engineering and engineering design to identify avenues for practices that may improve outcomes and support flexible, scalable teaching.

Project Details

I am open to supervising projects investigating techniques, tools, and/or trends in electrical engineering and engineering design education. Projects could focus on areas such as attainment of threshold concepts, project-based learning, effective AI-assisted learning, feedback design, or the use or development of ed tech.

Rather than offering a fixed project, I am happy to work with successful candidates to develop a project that aligns with their interests, skills, and career goals while contributing to ongoing engineering education research within electro.

Prerequisites

Previous experience in data science/processing, qualitative research, and/or engineering design experiences (units, teams or industry) would be preferred

Student Placement Agreement

A student placement agreement must be signed by the project supervisor and the student prior to commencement of the ASPIRE program.

[LV0554-72741 ASPIRE Program Co-Curricular-Student-Placement-Agreement-Short-term.docx](#)