



## Design of Solar Shingles

### CHALLENGE

Exploring ways to create elegant and aesthetically pleasing solar shingles that are efficient, affordable and easy to install.

### PARTNER

**Airo.Life**

**AIRO<sup>Ⓢ</sup>.LIFE**

A clean company focused on creating a healthy, stable environment for all species on Earth.

### TEAM

Faculty Lead: Robert Fleisig

Project Lead/Supervisor: **Dr. Mostafa Soliman**

Team Members: **Omooseke Fowode, Jenusanth Pramananthan**

Community Partner: **Airo Life**

**Aaron Pitcher & Doug Mochrie**

### MILESTONES & OUTCOME

- Pleasing Aesthetics (colour, size, pattern, etc)
- Concealed wires and connectors
- Durability (water leakage resistance, snow resistance and wind resistance)
- Easy installation
- Lifespan of 20-30 years

### VALUE

This year, we have taken this generative project a step further by designing solar shingles that hold aesthetics, durability and elegance at a much higher level of importance.

### NEXT STEPS

- Building of physical prototype 3.0
- Testing Procedures
- Installation validation

### STUDENT REFLECTION

- Hands-on experience working on the design and development of a real world product
- Design Exploration Principles
- A coherence in teamwork

