

## Engineering Design and Development

Engineering Design and Development (EDD) a senior course, is the capstone course in the Engineering Academy. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering process. This course applies and develops secondary level knowledge and skills in the mathematics, science, and technology.

### Student Portfolios:

Resume, and letters of recommendation, and examples of their work.

### Finding the Problems and defining solutions:

The Design Process

Project Management

Defining a Problem, Validation, and Justification

Designing or Re-Designing a Solution

Prototyping the Solution

Test, Evaluate, and Refine the Solutions

Documentation

Intellectual Property

Research

Team work

Presenting

### Projects:

Senior Project Product Presentation

Robotics – Programming the Bobot