Course Objectives:
This course is designed for students interested in approaching more challenging engineering projects carried out in subsequent ECE 492/493 Senior Design courses. It gives students an extra time needed to get better engineering insights, analyze critical aspects in solving engineering problems, understand future project implementation activities, and define project path. Students will selectively apply math, science, engineering as well as modeling and simulation throughout this study. They can engage in selective prototyping in order to derive and verify a proper solution, research limiting factors, and/or resolve tradeoffs. In order to broaden students’ horizons on engineering design, they will also conduct an individual independent study of design masters/studios and their ‘methods of trade’.

Prerequisites: POI

Instructor: Dr. Peter W. Pachowicz
703-993-1552; ppach@gmu.edu
Office Hours: Wednesdays 1-2:30pm
Engineering Bldg., Rm. 3240

Course structure:
• This course does not have a fixed structure. We will meet during the first week and determine the timeline for next meetings, progress reporting, and a presentation. This timeline depends on the type of projects carried out by students.

Course Textbook:
• Course presentation slides