Senior Design Project Overview

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http://www.engr.sjsu.edu/bjfurman/courses/ME195/

SJ SU Mechanical and Aerospace Engineering

03APR06
What is Senior Design Project?

- Two-semester design course
  - A need → concept → prototype hardware
    - Real-world, open-ended design experience
  - ME 195A (AE 170A for AE students)
    - Fall semester
      - Problem definition
      - Background research
      - Ideation and concept selection
      - Detail design
  - ME 195B (AE 170B for AE students)
    - Spring semester
      - Fabrication
      - Testing
How does it work?

- Prerequisites:
  - ME 195A: ME 114, ME 154, and ME 120 (can be taken concurrently)
  - AE 170A: AE 162, AE 165, ME 130, ME 20, AE 114, AE 167 (may be taken concurrently)

- Form a team
  - Two minimum, up to maybe five depending on the project

- Choose a project and instructor (with approval)
What types of projects are there?

- **Industry Sponsored**
  - Company provides project scope and funding
    - obtained by the department or your employer

- **MAE Laboratory Development**
  - MAE provides project scope and funding

- **Personal Interest**
  - Students define project scope and funding
What do I do now?

- Review currently available projects
- Form a team
- Talk to senior project course instructors
  - Prof. Agarwal
  - Prof. Du
  - Prof. Furman
  - Prof. Hsu
  - Prof. Mourtos and/or Prof. Papadopoulos (for AE 170)
- Visit the ME 195 website to see summaries of this year’s projects (coming soon!)
- Attend Conference Day presentations
  - Friday, May 5, 2006 9 am – 4 pm in E287, E192, E117, or E164