ME189 & ECE188/189: Week 5
## Course Timeline

<table>
<thead>
<tr>
<th>Week 1</th>
<th>Class</th>
<th>Fabricating and testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 2</td>
<td><strong>Website Content In</strong></td>
<td>Fabricating and testing</td>
</tr>
<tr>
<td>Week 3</td>
<td>Fabricating and testing</td>
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<td>Week 4</td>
<td>Fabricating and testing</td>
<td></td>
</tr>
<tr>
<td>Week 5</td>
<td>Class</td>
<td><strong>Project completion Test Plan</strong></td>
</tr>
</tbody>
</table>
Course Timeline

Week 6  Reworking prototype and testing
Week 7  Reworking prototype and testing
Week 8  Project completion review
Week 9  Project completion review
       Poster reviews Wed 11am-3pm
Week 10 Video Due Monday 5pm
       Showcase Presentation rehearsals Thurs 2-4pm
       Engineering Design Expo (Edx 2018) Fri 12:30-5:15pm

Write Paper, Design Poster, Design Presentation, Design Video
Engineering Design Expo (EDx 2018)

• 6/8 from 2-5pm at Corwin Pavilion
  • Set-up, lunch, senior class photos 12:30-2pm
  • Poster/demo/judging session 2-4pm
  • Design Showcase (TED style talks) 4-5pm
• Open to the public
• Lots of potential employers
• Dress to impress
Design Competition
Competition Information

- **Time/Date:** Fri, June 8\(^{th}\) from 2-4pm (Arrive at 12:30pm for lunch, set-up, [class photos](#))
- **Location:** Corwin Pavilion
- **Format:** Each team will have a booth with electrical power access, table, and their poster. You will have a dedicated time to showcase your project to the judges (12 minutes per ECE team, 5 minutes per ME team). If possible, you should work a demo of your product into what you present. If applicable, you may have supplementary props and/or a laptop with pictures, images, videos, but ABSOLUTELY NO SLIDES! Judges will likely interrupt you with questions, so be prepared to think on your feet!

- **Judging Criteria:**
  1. Quality of the engineering work and of the resulting final product.
  2. How well were the goals of the project achieved?
  3. Quality of presentation / demonstration.
Competition Information

- Projects will be judged by a panel of faculty and industry judges
- There will be three separate competitions, each with 1-3 awards:
  - Mechanical Engineering (3 awards)
    - Excellence in Mechanical Engineering (includes $2K prize)
    - Engineering Innovation in ME
    - Best Technical Project in ME
  - Electrical Engineering (2 awards)
    - Excellence in Electrical Engineering (includes $2K prize)
    - Engineering Innovation in EE
  - Computer Engineering (2 awards, determined in CE morning talks)
    - Excellence in Computer Engineering (includes $2K prize)
    - Engineering Innovation in CE
Poster Information / Overview

- **Size:** 36” x 48” (EE, CE, and Multidisciplinary), 30” x 40” (ME)
- **Content:** Refer to template and instructions. Note:
  - You may use provided template or come up with your own design
  - Must include (i) Team member names, (ii) Title, (iii) Your logo, (iv) Sponsor logo, (v) UCSB College of Engineering logo, and (vi) Acknowledgements
  - Background color cannot be black
  - Images must be at least 150dpi (preferably at least 300dpi)
- **General Tips:**
  - Use a minimum of text (bullet point descriptions are encouraged)
  - Make text large enough to be readable from a distance of 5 to 6 ft
  - Use graphs, charts, photographs, and illustrations as much as possible
  - Use graphics to communicate your points quickly and to demonstrate your work
  - Ideal poster will serve both as a stand-alone poster and as a reference for your presentation
<table>
<thead>
<tr>
<th>Student #1</th>
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<th>Student #5</th>
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</thead>
</table>

**Background**
Insert background info about your project, motivation, etc. Include a figure if applicable.

**Overview / Design Specs**
Insert brief description of product, problems that it solves, bullet points of key features, etc.

**Exploded View / Block Diagram / Functional Flow Diagram**

**Insert Exploded View / Block Diagram / Functional Flow Diagram**

**Final Design / Product Name**

**Insert picture of final product**

Caption and/or text (preferably bullet points)

**Hardware / Key Components**

- **Picture: Key Comp #1**
  - **Label**: Describe key component #1, including applicable specs

- **Picture: Key Comp #2**
  - **Label**: Describe key component #2, including applicable specs

- **Picture: Key Comp #3**
  - **Label**: Describe key component #4, including applicable specs

**Key Result #1 (e.g., thermal test, drop test, etc)**

Insert figure

Describe key result (consider bullet point list).

**Key Result #2 / References / Conclusion**

Insert figure

Describe key result (consider bullet point list).

**Acknowledgements:**
Acknowledge everyone that helped you with your project (sponsors, mentors, instructors, TA’s, etc.).
Poster Deadlines / Submission / Printing

- Tues 5/29: Submit first draft by 5pm, share over Google Drive to capstone.ece188@gmail.com
- Wed 5/30: Poster reviews 11am-3pm
- Sat 6/2: Submit final draft by 5pm, share over Google Drive as above.
- Mon 6/4: All posters will be printed. Contact Ekta Prashnani (ektaprashnani@gmail.com) with questions
- Thurs 6/7: Practice/info sessions at Corwin Pavilion in the afternoon
Project Completion Review / Customer Review (Final Presentation)
Project Completion Review

Content:
Tell us about your design
What motivated the design
Don’t forget to include the design specifications which came from
   Customer needs, Engineering Characteristics, competitive benchmarking
Show us the test results, how does your product stack up to the competition?
Get into the details of how your product works
Utilize video, pictures, diagrams

Design: Spend a few weeks really preparing for this review. Take pride in your story and design. Think about how to sell it!
Video due Mon June 4
30s Video specifics

To be shown in front of a crowd of 400-600 people
30 seconds max
Demonstrate your prototype working
Think of this as a commercial on television—sell us on your idea, why it’s important
Condensed elevator pitch
Videos from last year: [https://youtu.be/pjy1Wf9vFUI?t=1139](https://youtu.be/pjy1Wf9vFUI?t=1139)
Optional but recommended

A feature length video about your project
Any length between 30s and 4 minutes

If you do not submit a feature length video, we’ll use your 30s video

For the website, last year’s setup here:
https://capstone.engineering.ucsb.edu/projects?title=&field_project_type_value=All&field_year_value%5Bvalue%5D%5Byear%5D=2017
Data Dump
Data Dump

Box folder to be set up for your to dump all CAD files and everything else for the sponsor / future use