

ENPH 459

Engineering Physics Project 1

Lecture 1 – welcome back!

Carl Hansen, Dylan Gunn, Bernhard Zender
Friday January 5, 2017

Today

1. Meet the team
2. Homework
3. Evaluation Scheme, Proposals Review, Deliverables, Details
4. Schedule, Team Presentations, Speakers
5. Win an award! APSC Design & Innovation Day
6. Midterm Self-Evaluation Survey
7. Equipment, Procedures, Spaces, Purchasing
8. Project Lab Tour (~30min, sign up today)
9. Regular Meeting Times

Meet The Team

Carl Hansen

carl.lars.hansen@gmail.com



Dylan Gunn

dylangunn@gmail.com



Bernhard Zender

bzender@phas.ubc.ca

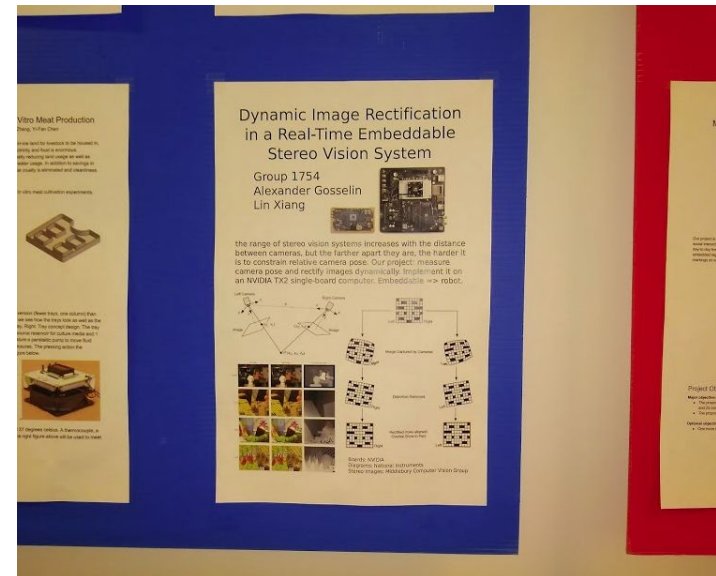


Homework

Make a poster about your project as follows:

- double letter size, portrait (11" wide, 17" high)
- title and # of your project, team members and sponsor
- copy info and pictures from your proposal, but go easy on text
- purpose: to inform about what's going on inside the projectlab
- **must** be submitted as PDF, email Bernhard bzender@phas.ubc.ca

The easiest way to do this super quick is Google Slides. You can custom-set the format of The One Slide That Is To Be Your Poster to 11" wide, 17" tall, drag and drop images/screenshots/graphs and add text as needed. When done, you download it as PDF and email that to Bernhard. No link sharing please.



Evaluation Scheme

Project Proposal	15 %
Final Class Presentation	15 %
Professionalism (Project Milestones, Weekly Reports, Logbook, Surveys)	25 %
Final Recommendation "Report"	45 %

First Term – Proposals (15%)

Purpose of a proposal:

- To lay out a timeframe and schedule
- To identify needed resources
- To identify potential risks
- To demonstrate competence and gain permission to perform the work

Deliverables

Your project will change over time. Focus on what is important.

- You have very limited time and resources. Focus on what is most important and do it well.
- Be absolute clear on what is the most useful final outcome is for your Project Sponsor.
- Be realistic in setting timelines and deliverables.
- Work towards objective, quantitative outcomes.

Professionalism (15%)

Log Books

- 1 per person, supplied by team members
- Electronic only – submit as PDF at the end of term
- Course guidelines in syllabus.

Weekly Reports

- Use UBC Connect.
- Due by **Mon 5pm** every week.
- Done by Editorial Manager

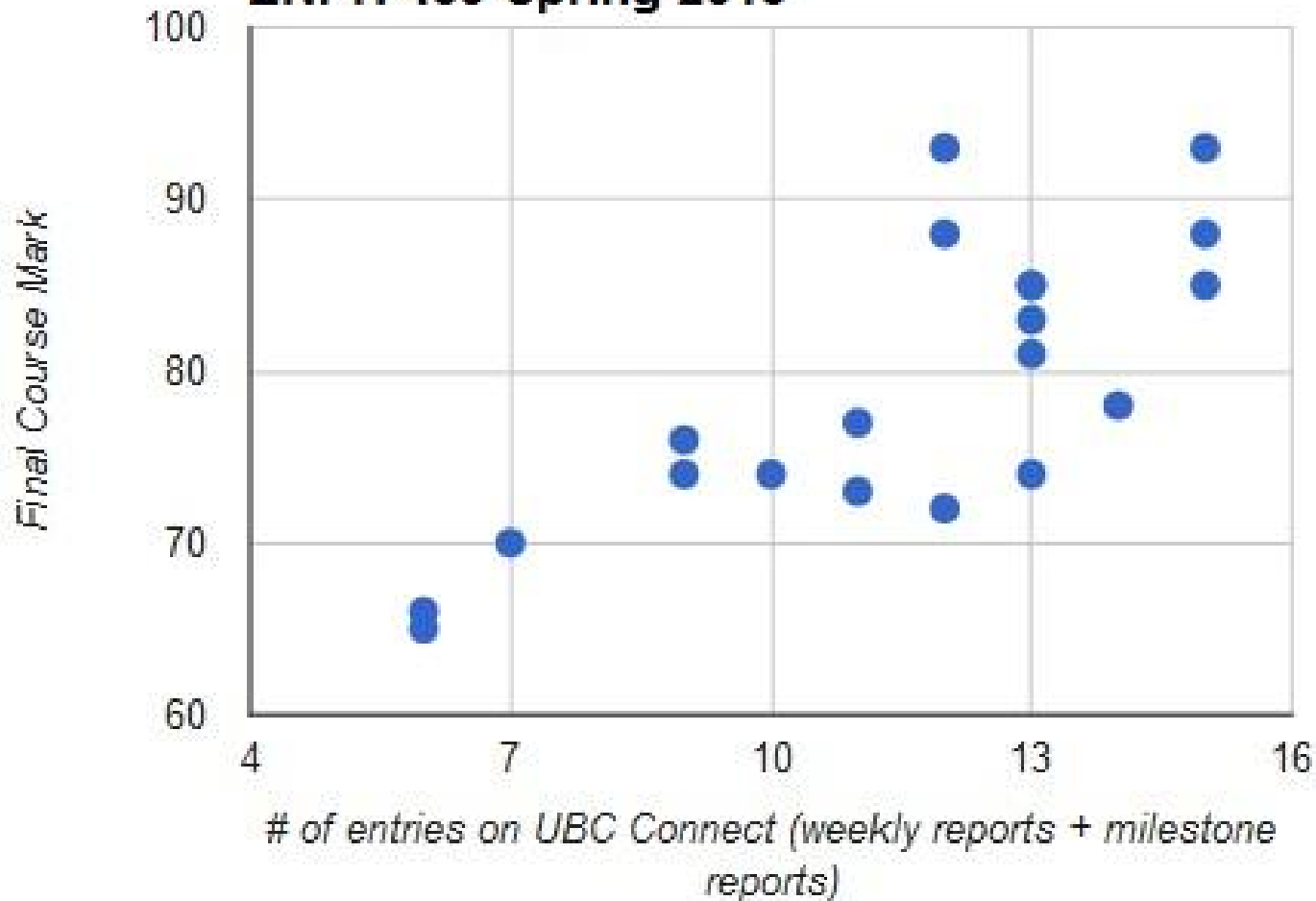
Milestone Reporting

- Use UBC Connect
- Submit by 11pm on Milestone Date
- Avoid changes less than one week before proposed Milestone Date.

Surveys

- Similar to the 253 end-of-term survey, may be done multiple times

**# of entries on UBC Connect (weekly reports + milestones) vs. (Final Mark)
ENPH 459 Spring 2013**



2nd Term Schedule

- Mix of team pitches/presentations and guest speakers.
- Course webpage will be updated throughout the term:
<https://projectlab.engphys.ubc.ca/enph459-fall2017/>

Week#	2018 – Term 2	Topic	Notes
1	Fri Jan 5	Info Session / Course Overview	slides link coming soon
2	Fri Jan 12	No class, but official Projectlab intro tours - mandatory	Sign Up Here
3	Fri Jan 19	Carl Hansen	
4	Fri Jan 26	Student Team Presentations	
5	Fri Feb 2	Student Team Presentations	
6	Fri Feb 9	Student Team Presentations	
7	Fri Feb 16	Dylan Gunn	

In-Class Presentations

- Each group will present two times during the term.
- Goals for these presentations: [Dylan]

Final Class Presentation (15%)

- Done in last two classes, or *maybe* just in the last one.

UBC Design & Innovation Day on April 5th

- showcase your project
- win an award (\$\$)
- two different types of awards: one by us (engphys) and one by APSC
- more info soon, here:
<https://apsc.ubc.ca/event/2018/design-and-innovation-day>

Midterm Self-Evaluations

- similar to what you did towards the end of ENPH 253
- more detailed look at team inner workings, organization, and effectiveness
- self-reflection, spot problems early, don't wait for them to solve themselves - please talk to us
- interaction with your sponsor is evaluated as well

Midterm - Dates?

Expenses / Equipment

1. Confirm with Project Sponsors about sources of funding (~\$200 from Project Lab).

2. Project Lab can make purchases for your team.
 - Email all purchase requests (documentation, vendors) to Bernhard
 - use .ca websites like digikey.ca if they exist.
 - Canada based companies ship cheaper, and don't get stuck in customs
 - super cheap suppliers from Asia can take 2 or 3 months to come in

3. Avoid using your own money (reimbursements are slow).

4. Track usage:
 - Project Lab items used as part of your project.
 - Items purchased by the Project Lab for your group.
 - Stock material from PHAS stores / other places
 - Reviewed by Project Lab during term, submitted and reviewed by Sponsors and Lab at end of term

Amenities, Facilities and Current Developments

- waterjet is offline until further notice
- laser cutter and 3D printers alive and well
- both can be used for personal projects, but personal 3D prints cost \$\$ (project related ones are free)
- Hebb is being renovated:
 - laser cutter access via ChemPhys main entrance
 - we are moving ENPH253 to the old SUB, upstairs

Amenities, Facilities and Current Developments

Hennings 115 (Project Lab)

- Dedicated space/resources for each project
- ENPH 479 students are currently wrapping up, will finish over the next few weeks.

Student Machine Shop

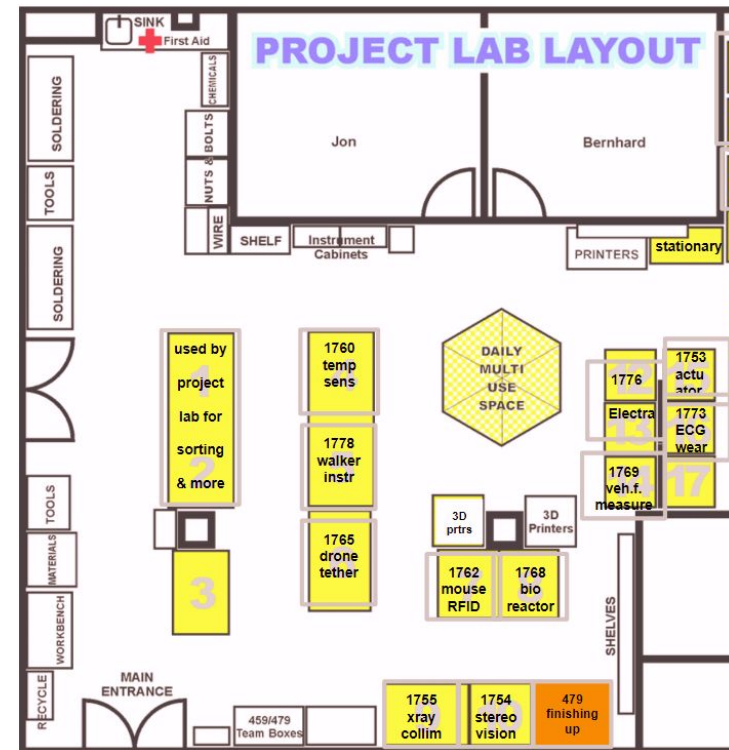
- Access for 40hr students only. Bring a buddy. Never work alone in the shop.

At any time

- email your student # to Bernhard for card access to Hennings and the Projectlab.

Next Friday

- Deadline for your mini-posters: email Bernhard your PDF as described
- Projectlab (Henn115) tours, no class. Sign up [here](#).
- Make a team decision about asking for Projectlab work space - email Bernhard for that
- [link to see the lab layout](#)



You are encouraged to set up Weekly Meetings with Us

- Groups may request to meet weekly with the Project Lab outside of the lecture times.
- Let us know times you are available.
- Typically $\sim 1/3$ of groups will set up regular meetings for 459.

Safety

- Never hesitate to call 911
- First-aid from Fire Station often faster! 822-4444
- Avoid working alone on anything with any safety risk
- Always inform Project Lab / Sponsor of potential risks.

**Don't Forget (Mandatory) - Next Friday - Projectlab Tour
(sign up [here](#))**