

Welcome to UBC Engineering!

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Project Lab

What's so different about Engineering?

You will be trained to solve problems
analytically,
experimentally,
computationally and
through design and fabrication.

You will be the best problem-solvers on campus.

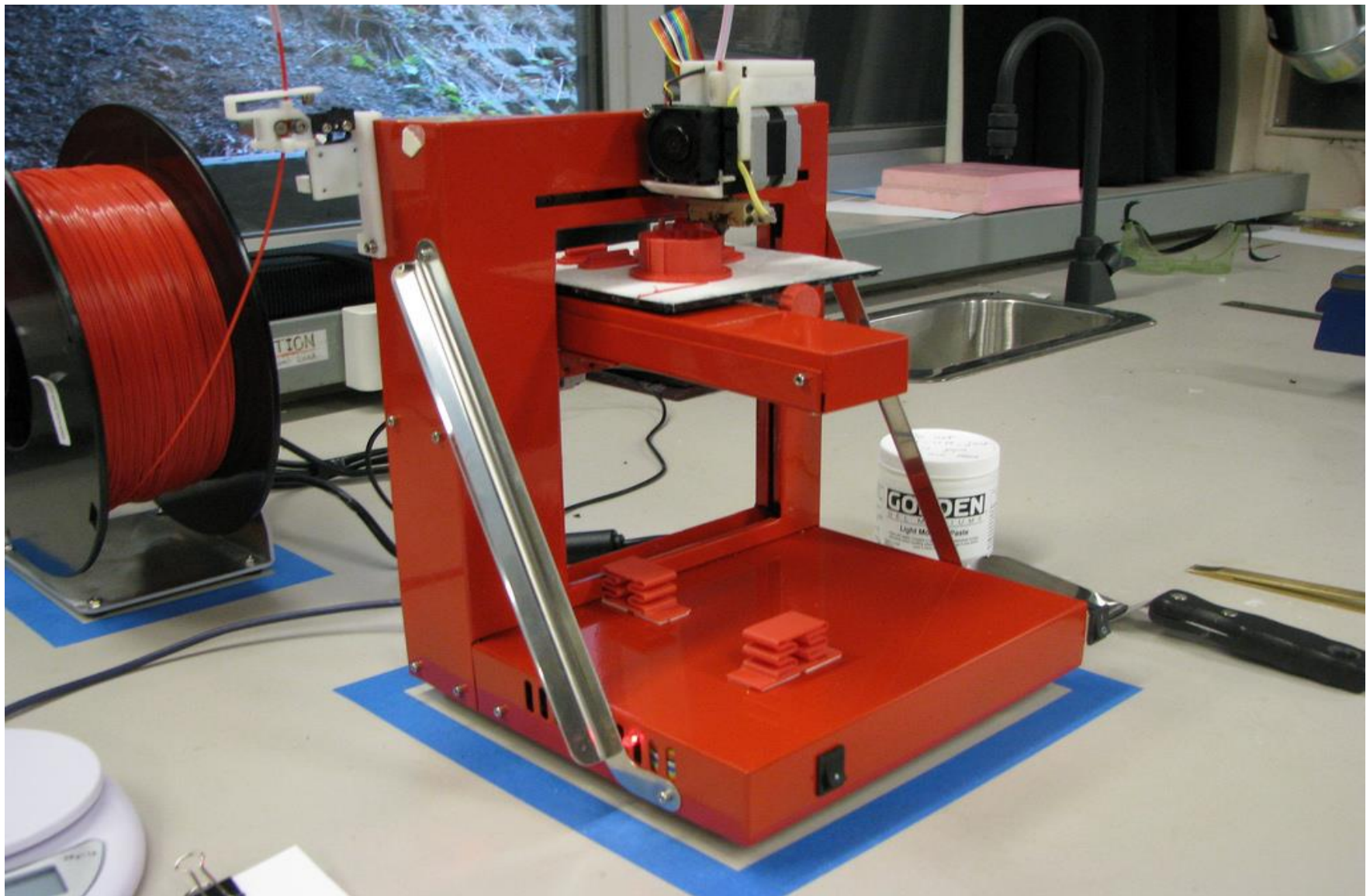
What is a Professor/ Instructor?

- What is a professor? What do they do?
- How do professors get their job?
- Does a professor have a boss?
- How do you address your Professors? (Dr? Professor? Their first name?)

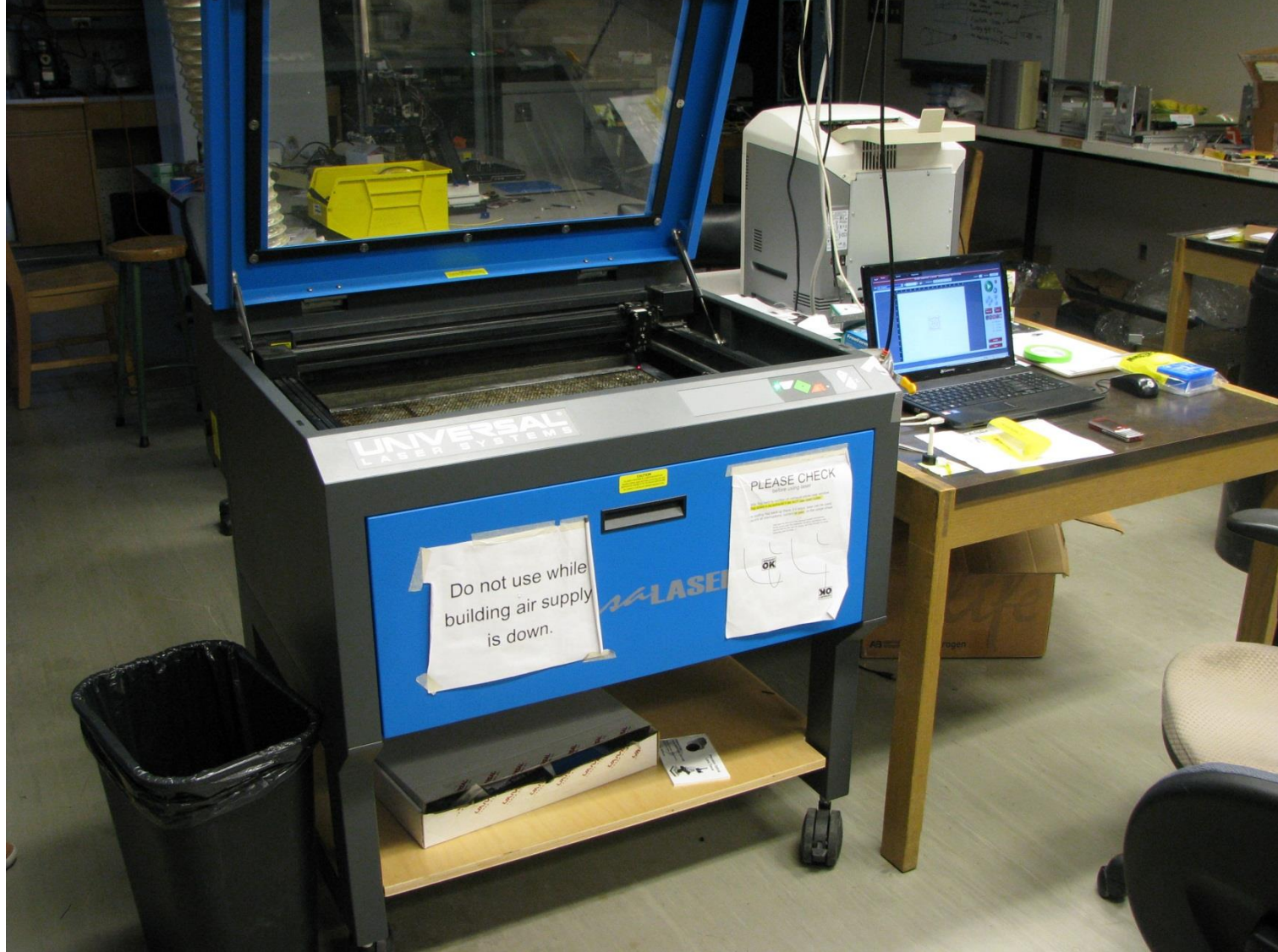
What's an Instructor? Isn't everyone a Prof?

About Me

- Lab Director / Instructor for Engineering Physics program. (~ 8 years)
- I teach the capstone project courses for senior EngPhys students (~50 projects/year)
- I oversee prototyping equipment and courses for engineers (+MBA students +architects...)
- I assist students on their student teams, and profs on their courses and research



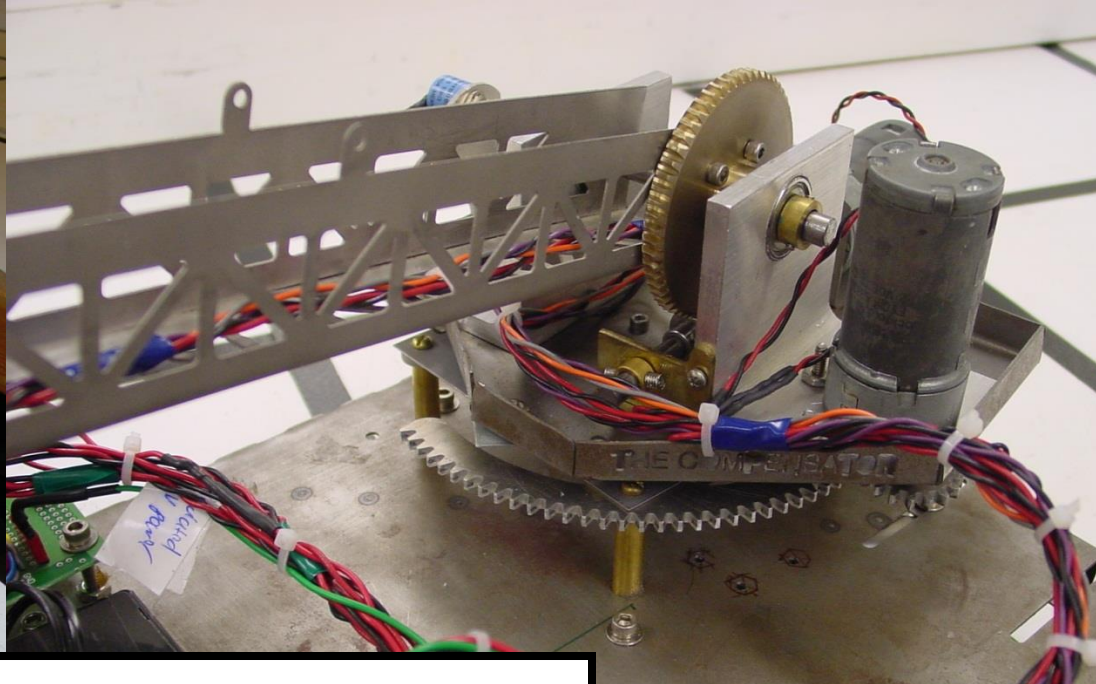
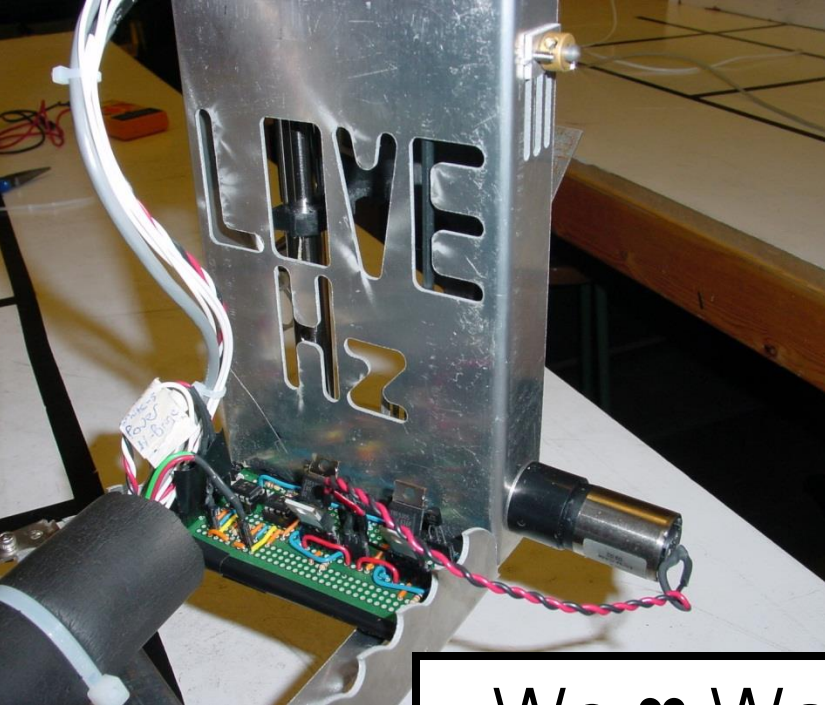
3D Printer – makes physical models from ABS plastic



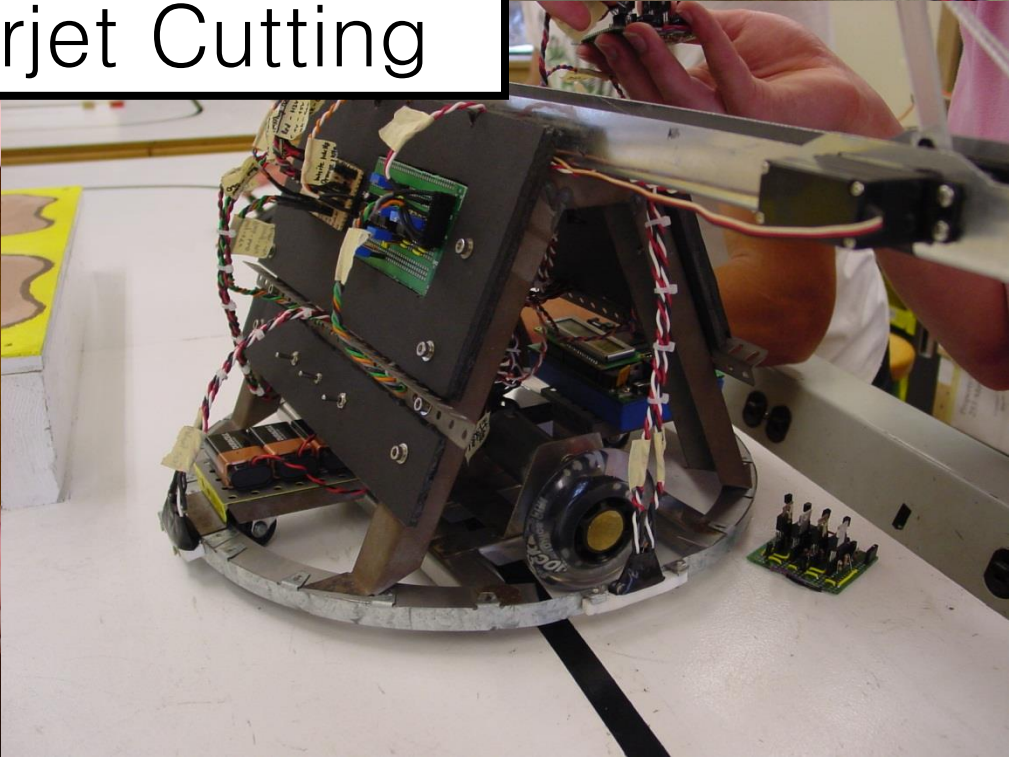
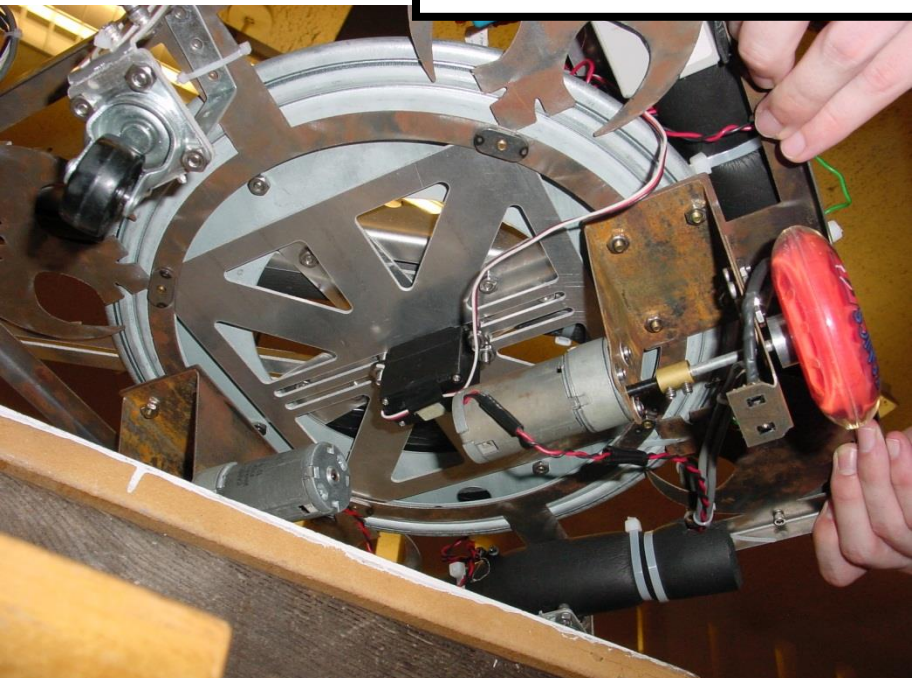
Laser Cutter/Engraver – can cut cardboard, wood, some plastics.



WaterJet cutter Our most versatile prototyping machine. Cuts everything



We ♥ Waterjet Cutting



MUGs to the front of the room!

Q&A about daily life as an Engineering Student

- Classes!
- Student Teams
- Student Leadership experiences
- Design projects
- Clubs, Sports, Jobs

You are a part of the UBC community.

Everything you do from now on is as a representative of the UBC community.

Please represent us well.

What are some habits of successful students?

- Keeps track of all assignments, labs, and exam times.
 - Use a calendar!
- Finishes a task before moving onto the next item.
 - Close your laptop to focus!
- Takes short breaks during the day (even every hour) then focusing back on work.
 - Open your laptop! Then close your laptop!
- Finds help when you need it (course instructors, friends, tutorials, office hours...)
 - Try it once early in the term to meet your instructors!

Learn to take **appropriate risks** in order to grow and get better.
(No risk, no reward)
(Too much risk, no reward.)



Give every department a fair chance chance,

Attend every open house, guest talk, and free event you can, to find out about every department.

Give yourself the chance to be surprised.

Departments and Schools:

Chemical & Biological Engineering

Civil Engineering

Electrical & Computer Engineering

Materials Engineering

Mechanical Engineering

Mining Engineering

UBC Okanagan Engineering

Non-department Programs

Biomedical Engineering

Engineering Physics

Environmental Engineering

Geological Engineering

Integrated Engineering

Final thoughts/Questions?

- Google “EngPhys Imagine” for this talk.
- Thanks!