

## Internships & Co-Ops

Billy and Adam want to do internships and co-ops because we would like to focus on

**To bring internships and co-ops to college students with a focus on diversity and inclusion, start by assessing student needs and researching employers that align with their interests and values. Build partnerships with companies committed to diversity, and collaborate with organizations that support underrepresented groups. Develop a diversity and inclusion framework, including clear guidelines for employers and mentorship programs. Promote these opportunities through targeted outreach and inclusive marketing. Prepare students with workshops on resume building, interview skills, and workplace diversity. Provide ongoing support during their internships and regularly gather feedback for continuous improvement. Finally, celebrate successes by recognizing contributions and sharing inspiring stories to encourage broader participation.**

Internships and co-ops are a very important aspect in some college students' careers.

## Research

**Our goal for Undergraduate research opportunities is to reach out to some labs over our first year in college. To be able to achieve this we need to do research in some of the labs in this campus and around other colleges in the area to see what are available for freshman students who are able to get into.**

### Research Opportunities for Engineering Majors

- Cybersecurity
  - Designated as a National Security Agency (NSA)/Department of Homeland Security (DHS) Center of Excellence in Cyber Defense Research, UMass Lowell's cyber-security education and research programs have helped meet the fast-growing demand for a highly trained cyber-security workforce.
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## Coop

So heres the thing

## **Community Engagement and Outreach**

I intend to foster an environment which promotes youth engagement with engineering by reaching out to local highschools and offering opportunities and activities relevant to the various fields.

### **METHODS:**

#### **★ *Hosting short hands-on activities within schools that hold STEM classes.***

- For schools which do not offer STEM or Engineering related courses, work with the school to create a curriculum which would allow the class to run.
  - Work with highschools to integrate more STEM/Engineering concepts into their regular curriculum.

#### **★ *Encourage summer participation in activities such as RAMP.***

#### **★ *Offer highschoolers (in scheduled groups) opportunities to visit and engage (with limits) with labs at UML***

- Potentially offer opportunities for one-on-one college students to highschool shadowing, pair highschoolers with college students (preferably those actively engaging in their major; junior, senior, grad) who are in their desired/interested major.

#### **★ *Dedicate time to supporting and focusing on underrepresented groups within the field.***

- Potentially bring in individuals from underrepresented groups in the field to speak/hold seminars @ school wide assemblies.

#### **★ *Virtual labs and online engagement opportunities.***

- Create online platforms through UML where highschool students can engage in online labs. Through this they can perform simple at home experiments, watch tutorials, and take part in engineering challenges.
- Use social media to highlight highschool engineering projects made through online and at home activities to provide incentive for students to participate.