Please list your undergraduate degree and current working area.  No points for this question, as you know all the right answers.

What from 1 to 5 are you skills in

MATLAB Programming

Soldering

Realtime Applications

analog design

digital design

Robotics experience

Goals for class

**Undergraduate Degree:** Dual degrees in Computer Engineering and Applied Mathematics from the University of Maryland

**Current Degree:** Electrical and Computer Engineering from the Johns Hopkins University, Whiting School of Engineering, Engineering for Professionals Program

**Working Area:** Computer Engineer in the Force Projection Sector at JHUAPL

|  |  |
| --- | --- |
| **Skill** | **Self-Proclaimed Level** |
| MATLAB Programming | 4.5 |
| Soldering | 4 |
| Realtime Applications | 3 |
| Analog Design | 2 |
| Digital Design | 3.5 |

**Robotics Experience:**

My undergraduate team project in my freshman year was to design an autonomous hovercraft to achieve a specific set of tasks, and I did the majority of the wiring and coding for that.

My senior year capstone project was on a team with two other people, and our task was to design a robot to collaborate with two others to gather cones in a certain way, and I did most of the wiring and physical construction for that project. I participated with a few friends in a Hackathon called BitCamp at UMD, and our goal was to design a sort of Rock 'em Sock 'em Robots where users could make punching motions with their arms to control small "robots" in an arena. One of the controller sets involved a user strapping pieces of yard stick to their forearm and biceps with potentiometers between to very primitively detect an arm extension as a "punch"; one of the others actually involved Myo armbands to do the same thing, which was much cooler since it was wireless. I handled most of the physical construction of the arena, robots, and mechanisms, while my teammates handled a lot of the logic, coding, and web interface. I did end up having a "eureka" moment at about 4 AM to get the Myo working, though, so that felt good.

Otherwise, I have been looking for opportunities to gain more robotics experiences whenever I can. I love the hands-on and very technical nature of the work, frustrations and challenges and all.

**Goals for the Class:** I hope to gain new knowledge and experience using some of the more modern technology we have discussed (Myo, Oculus, Leap Motion, etc.). I also hope to get a better understanding of the methods, approaches, and design decisions behind the hardware and software used in real-world applications, as well as our own "demo" projects. Finally, I hope to do some networking with my classmates and the instructors through the duration of the course, to see what kinds of interesting things they are working on and see if any of it piques my interest.