

# CSCI 3308 Software Development Methods and Tools

## Project Final Submission

**Title:** Robotic Arm

**Who:** Bradley Arnot  
Andrew Candelaresi  
Kelsey Dowd  
Lauren Mitchell

**Project Tracking Software:** Freedcamp, and Slack for communication  
[https://freedcamp.com/Laurens\\_Projects\\_Dz5/Software\\_Method\\_3iw/todos](https://freedcamp.com/Laurens_Projects_Dz5/Software_Method_3iw/todos)

In order to gain access to our Freedcamp, we have invited you to make an account and view our project tracker. If this doesn't work, we also exported our tasks to an excel document and that is also on GitHub, titled exported list of project tracker tasks.

Sort by: Date Created asc | Filter by: choose | Contains text | Cancel Search | Add Task | Settings

**To-Do list**

- ✓ Tasks-for-week-of-9/20 | Completed on Nov 1, 2015
- ✓ Attend-Arduino-Workshop-on-9/22 | Completed on Sep 23, 2015 | Medium | Everyone
- ✓ Purchase-Arduino-parts/email-department-for-rentals | Completed on Nov 1, 2015 | High | Everyone | Due Oct 2, 2015
- ✓ Submit-Part-1 | Completed on Sep 28, 2015 | Kelsey D. | Due Sep 24, 2015
- ✓ Arduino-Workshop-part-II | Completed on Oct 1, 2015 | Medium | Brad A. | Due Sep 29, 2015
- ✓ Project-Part-2 | Completed on Oct 31, 2015 | High | Everyone | Due Oct 13, 2015
- ✓ EVERYONE READ | Completed on Oct 22, 2015 | High | Everyone
- ✓ Research-Robotic-Arm-tutorials | Completed on Oct 22, 2015 | Medium | Everyone | Due Oct 6, 2015
- ✓ Step-1-of-building-robot | Completed on Nov 1, 2015 | Due Oct 8, 2015
- ✓ Push-new-tasks-to-repository | Completed on Nov 29, 2015 | Kelsey D. | Due Oct 2, 2015
- ✓ Test-out-serves | Completed on Nov 29, 2015
- ✓ code-serves | Completed on Nov 29, 2015
- ✓ design-structure-for-arm | Completed on Nov 29, 2015 | High | Andrew C. | 0
- ✓ Discuss-what-other-parts-needed: | Completed on Oct 22, 2015 | 1

**Assign To** drag to assign  
Everyone | Andrew C. | Brad A. | Kelsey D. | Lauren M. | + Invite More People

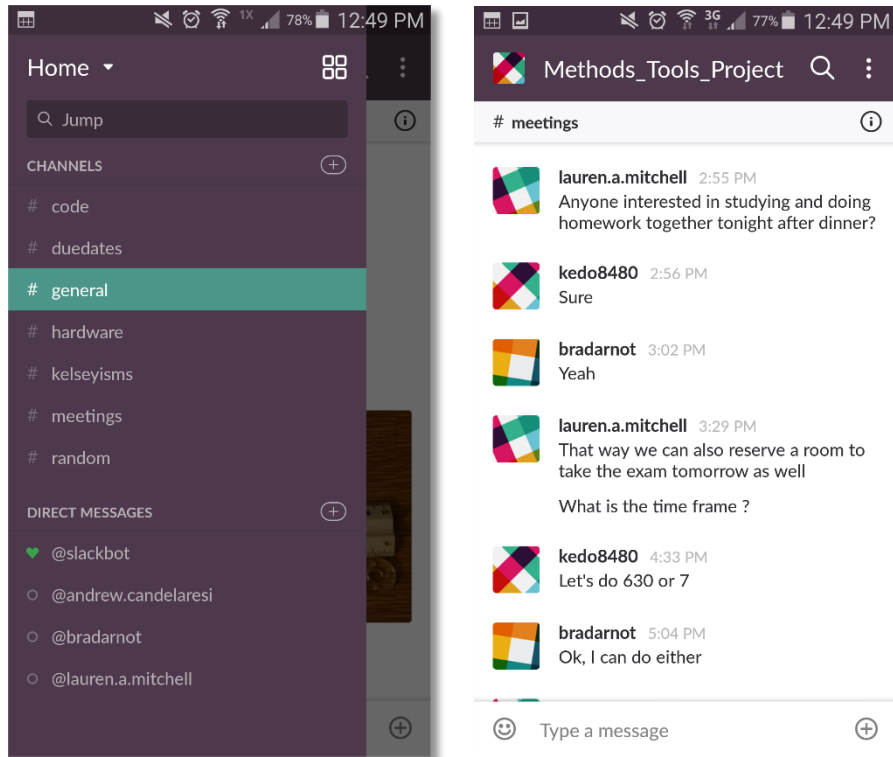
**Due Date** drag to assign  
Choose date then drag me

**Priority** drag tag  
Low | Medium | High

**Progress**  
Completed | In progress

**Hide Completed Tasks**  
Press to hide completed

**Freedcamp screenshot: part of our ToDo list**



Some example Slack screenshots: Left are all of our channels, Right is an example conversation

### Video:

Final Demo Video: <https://www.youtube.com/watch?v=jfNERC8yszY>

The rest of the videos for our project are on the video document on github.

**Deployment:** Since this is a hardware project, you need to have the robot arm assembled to use it. Once you have the robot, you can plug it in to use it. You must plug in both the power to the Arduino and the power to the shield (explained in the demo video). Finally, the Arduino code is already uploaded to the Arduino, but if the user would like to change the code or functionality of the robot, they must download and install the Arduino IDE (open source), and use the adafruit PWM shield library. .

**Auto-documentation:** For auto-documentation, we used Doxygen.

Link to HTML: [http://htmlpreview.github.io/?https://github.com/candeladd/Methods-Tools\\_ProjectFall2015/blob/master/Source\\_Code/docs/html/index.html](http://htmlpreview.github.io/?https://github.com/candeladd/Methods-Tools_ProjectFall2015/blob/master/Source_Code/docs/html/index.html)

Link to PDF: [https://github.com/candeladd/Methods-Tools\\_ProjectFall2015/blob/master/Source\\_Code/docs/latex/refman.pdf](https://github.com/candeladd/Methods-Tools_ProjectFall2015/blob/master/Source_Code/docs/latex/refman.pdf)

**VCS:** github

[https://github.com/candeladd/Methods-Tools\\_ProjectFall2015.git](https://github.com/candeladd/Methods-Tools_ProjectFall2015.git)

Kelsey's commits: kedo8480

Brad's commits: arcticwaffle

Lauren's commits: laurenmitchell

Andrew's commits: candeladd

