

# ***TIME SHEET DESCRIPTION DOCUMENT***

*Assignment presented to  
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*ECSE 211: Design Principles and Methods*

*Presented by Team 20*

**Team Number: 20**

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**Specifications:** This document is a description of all the accomplished tasks mentioned in the Gantt Chart and tracked in the Time Sheet.

| Week 1            | Task ID | Justification   |
|-------------------|---------|---|
| Max Brodeur-Urbas | 6       | Brainstormed and got all tasks organized                  |
|                   | 34      | Testing and Debugging                                     |
|                   | 8       | Created Gantt Chart                                       |
|                   | 7       | Worked as group through fore-sought logical design issues |
|                   | 39      | Adjusted Preliminary Gantt chart to realistic standards   |
|                   | 40      | Organize and prepare presentation                         |
| Carl El Khoury    | 6       | Brainstormed preliminary software design                  |
|                   | 34      | Wrote the code  |
|                   | 7       | Worked as group through fore-sought logical design issues |
|                   | 45      | Worked on Rough draft of software logic                   |
| Zakaria Essadaoui | 6       | Brainstormed preliminary software design                  |
|                   | 34      | Wrote the code  |
|                   | 7       | Worked as group through fore-sought logical design issues |
|                   | 45      | Worked on Rough draft of software logic                   |
| Ayden Malik       | 6       | Brainstormed and researched document structure            |
|                   | 34      | Constructed Prototype                                     |
|                   | 7       | Worked as group through fore-sought logical design issues |
|                   | 9       | Drew out groups initial hardware concept                  |
| Ashish Paul       | 6       | Brainstormed and researched document structure            |
|                   | 34      | Testing and Debugging                                     |
|                   | 7       | Worked as group through fore-sought logical design issues |
| Shaodi Sun        | 6       | Brainstormed and researched document structure            |
|                   | 34      | Collaboratively constructed all 4 documents               |
|                   | 7       | Worked as group through fore-sought logical design issues |
|                   | 39      | Adjusted Budget   |
|                   | 40      | Review all documents for submission and write summary     |

| Week 2            | Task ID | Justification  |
|-------------------|---------|--|
| Max Brodeur-Urbas | 56      | Organization of team responsibility                      |
|                   | 76      | Worked on finalization of Presentation                   |
|                   | 213     | Tabulated all worked hours and justification for each    |
|                   | 69      | Brainstormed pros and cons of all three designs          |
| Carl El Khoury    | 59      | Worked on creation and completion of Software design doc |
|                   | 69      | Brainstormed pros and cons of all three designs          |
| Zakaria Essadaoui | 59      | Worked on creation and completion of Software design doc |
|                   | 70      | Worked on Software flow chart and Class diagram          |
|                   | 69      | Brainstormed pros and cons of all three designs          |
| Ayden Malik       | 58      | Created 3 proposals and completed hardware document      |
|                   | 69      | Presented concepts and strategic structural approaches   |
| Ashish Paul       | 60      | Worked on Testing document                               |
|                   | 69      | Brainstormed pros and cons of all three designs          |
| Shaodi Sun        | 76      | Worked on finalization of documents                      |
|                   | 69      | Brainstormed pros and cons of all three designs          |

| Week 3            | Task ID | Justification  |
|-------------------|---------|--|
| Max Brodeur-Urbas | 82      | Modelled and constructed ring catching mechanism           |
|                   | 11      | Attended and presented in design meeting                   |
|                   | 87      | Tabulated and updated hours in spreadsheet.                |
|                   | 92      | Updated Gantt chart with corrections and completion status |
| Carl El Khoury    | 82      | Modelled and constructed sweeping mechanism                |
|                   | 11      | Attended and presented in design meeting                   |
|                   | 91      | Documented status of code development in software doc      |
| Zakaria Essadaoui | 11      | Attended and presented in design meeting                   |
|                   | 91      | Documented status of code development in software doc      |
|                   | 84      | Created preliminary software API in software doc           |
| Ayden Malik       | 82      | Modelled Integrated gears linking top and bottom catcher.  |
|                   | 11      | Attended and presented in design meeting                   |
|                   | 261     | Updated hardware document with specifics of new design     |
|                   | 86      | Reviewed completeness and accuracy of hardware doc         |
| Ashish Paul       | 11      | Attended and presented in design meeting                   |
|                   | 92      | Updated testing document with relevant test information    |
|                   | 254     | Tested and recorded sensor accuracy and applications       |
| Shaodi Sun        | 11      | Attended and presented in design meeting                   |
|                   | 87      | Aided in tabulation of hours and tasks performed           |
|                   | 86      | Reviewed submitted documents and their contents            |

| Week 4            | Task ID | Justification  |
|-------------------|---------|--|
| Max Brodeur-Urbas | 80      | Attended and presented in design meeting                 |
|                   | 268     | Restructured and filled in gaps in hardware document     |
|                   | 6       | Updated and extended detail of gantt chart               |
|                   | 114     | Tabulated hours and provided justification for tasks.    |
| Carl El Khoury    | 80      | Attended and presented in design meeting                 |
|                   | 264     | Implemented motorized light sensor arm                   |
|                   | 96      | Coded logic for navigation and ring pickup               |
|                   | 97      | Tested and debugged code for beta design                 |
| Zakaria Essadaoui | 80      | Attended and presented in design meeting                 |
|                   | 99      | Implemented wifi class in software                       |
|                   | 96      | Coded logic for navigation and ring pickup               |
|                   | 97      | Tested and debugged code for beta design                 |
| Ayden Malik       | 80      | Attended and presented in design meeting                 |
|                   | 264     | Implemented static arms at ideal height                  |
|                   | 268     | Updated design for week 4                                |
|                   | 95      | Modified the robot to facilitate software design         |
| Ashish Paul       | 80      | Attended and presented in design meeting                 |
|                   | 95      | Modified the robot to facilitate software design         |
|                   | 270     | Extended and improved testing document                   |
|                   | 97      | Tested and documented results of beta design             |
| Shaodi Sun        | 80      | Attended and presented in design meeting                 |
|                   | 270     | Added detail and reviewed testing document               |
|                   | 264     | Aided in the building static arm                         |
|                   | 97      | Aided in preparation of documents with beta testing info |

| Week 5            | Task ID | Justification  |
|-------------------|---------|--|
| Max Brodeur-Urbas | 120     | Tested the robots abilities as changes were being made |
|                   | 118     | Updated initial documents and hardware                 |
|                   | 508     | Worked on creating final presentation poster           |
|                   | 188     | Logged hours and updated Gantt                         |
| Carl El Khoury    | 489     | Improved ring grabbing logic based on demo failure     |
|                   | 505     | Coded final logic for grabbing all four rings          |
|                   | 119     | Simplified and commented parts of code                 |
|                   | 188     | Worked on presentation                                 |
| Zakaria Essadaoui | 120     | Tested the robots abilities as changes were being made |
|                   | 489     | Improved navigation based on tunnel failure in demo    |
|                   | 505     | Coded final logic for grabbing all four rings          |
|                   | 119     | Simplified and commented parts of code                 |
| Ayden Malik       | 188     | Worked on presentation                                 |
|                   | 120     | Made small changes to code as testing occurred         |
|                   | 120     | Tested the robots abilities as changes were being made |
|                   | 118     | Updated hardware documents                             |
| Ashish Paul       | 188     | Worked on presentation                                 |
|                   | 463     | Implemented hardware improvements based on demo        |
|                   | 118     | Updated testing document                               |
|                   | 188     | Worked on presentation                                 |
| Shaodi Sun        | 120     | Was in charge of testing and directed group            |
|                   | 120     | Tested the robots abilities as changes were being made |
|                   | 112     | Updated initial documents based off TA feedback        |
|                   | 508     | Worked on creating final presentation poster           |
|                   | 188     | Worked on presentation                                 |