

**CMP 438 COMMUNICATING ROBOTS**  
**PROFESSOR: YANILDA PERALTA RAMOS**  
**GROUP PROJECT GUIDELINES**

**SELECT YOUR GROUP PROJECT:**

- Visit [this spreadsheet](#) to pick your group project. Ensure each group selects only one project and confirms it is not already chosen by another group.

**COMMUNICATE AND ASSIGN TASKS:**

- Establish effective communication with your teammates. Use platforms like Slack, email, or group chats to discuss and distribute tasks.
- Assign specific roles and responsibilities to each team member. This can include tasks such as design lead, coding lead, report writer, component assembler, etc.

**DESIGN YOUR ARDUINO PROJECT:**

- Begin by creating a detailed design of your project. This can include diagrams, schematics, and flowcharts that outline how the project will function.
- Use tools such as TinkerCAD or Fritzing to visualize your design and ensure all components are properly integrated.

**BUILD YOUR PROJECT WITH PHYSICAL COMPONENTS:**

- Gather all necessary physical components and assemble them according to your design.
- Ensure each component works as intended by testing them individually before integrating them into the full project.

**DEVELOP AND UPLOAD CODE:**

- Write the code required for your project and test it to confirm it functions correctly.
- Upload your finalized code to a **public GitHub repository** to share with your team and instructors. Make sure the repository includes clear documentation and comments in the code for readability.

**CREATE A PUBLIC SIMULATION:**

- Simulate your project design using online platforms such as Tinkercad or any relevant simulation tool.
- Include a link to this public simulation in your final report, ensuring that anyone with the link can access and view it.

**PREPARE YOUR REPORT:**

- Write a comprehensive report that covers:
  - Project overview and objectives
  - Design diagrams and explanations
  - Component list and assembly process
  - Code summary with a link to the GitHub repository

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- Link to the public simulation
- Ensure the report is well organized and follows a logical structure.

### PREPARE AND DELIVER YOUR PRESENTATION:

- Create a presentation that showcases:
  - The design process and methodology
  - Assembly and testing phases with images or video evidence
  - Live demonstration of the project using actual physical components
- Practice the presentation to ensure clarity, confidence, and time management.

### DEADLINE:

- **November 27, 2025:** Submit all components of the project, including the report and the public GitHub repository link, before this date.

### RUBRIC BREAKDOWN:

- **Functionality:** 30% – The project must meet its intended purpose and function seamlessly.
- **Working Components Assembly:** 20% – Proper assembly and integration of all physical components.
- **Code:** 10% – Code should be efficient, well-documented, and functional.
- **Design:** 10% – Clear and effective design documentation.
- **Report:** 10% – Comprehensive and well-organized report.
- **Presentation:** 20% – Clear, professional, and engaging presentation with actual components showcased.

Follow these steps thoroughly to complete your project successfully and on time. Good luck!