

# ENPM702: Final Project Grading – Group 8

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Score: 113 pts

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**School:** University of Maryland


**Semester/Year:** Fall/2024

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MARYLAND APPLIED  
GRADUATE ENGINEERING

The assignment was evaluated with the following parts published to  parts:

- ☐ Blue Regulator.
  - ☐  Blue Regulators are not available in the environment.
- ☐ Blue Battery.
- ☐ Green Pump.

Rubric	Score	Comment
Retrieve Parts List	15/20 pts	See <a href="#">feedback</a>
Process Camera Data	25/25 pts	
Navigate to Parts	40/40 pts	See <a href="#">feedback</a>
Code Quality & Documentation	20/20 pts	
Deliverables & Compilation	13/15 pts	See <a href="#">feedback</a>
Total	113/120 pts	

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## [*Retrieve Parts List*]

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### 5/10pts Handling Variations in Part Data.

- ☐ There is no blue regulators in the environment and your program is expected to display a message to the user about unavailable parts. Please refer to the instructions.
  - ☐ Let me know if I missed this message in the terminal and I will give you back your 5 pts.


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## [*Navigate to Parts*]

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- ☐ Excellent work on the launch file, incorporating advanced processing.

**Improvements** Your group is the only one to provide decent terminal outputs. Below is a list of suggested outputs that I have shared with each group.

- ☐ The parts the robot needs to navigate to (retrieved from `t` parts).
- ☐ The number of parts available in the environment for each type and color.
- ☐ Parts that are unavailable (if any).
- ☐ Information on whether the robot is navigating to a part or returning home.
- ☐  See next slide for an example of outputs expected for a final project.

```
=====
Group X: Start of Program
=====
Parts Required:
  - Blue Battery
  - Green Pump
  - Blue Regulator
-----
Parts Available in the Environment:
  - Blue Battery: 3
  - Green Pump: 2
  - Blue Regulator: Unavailable
-----
Navigation
-----
The Robot is going to Blue Battery
The Robot has reached Blue Battery
The Robot is going to Blue Battery
The Robot has reached Blue Battery
The Robot is going to Blue Battery
The Robot has reached Blue Battery
The Robot is going to Green Pump
The Robot has reached Green Pump
The Robot is going to Green Pump
The Robot has reached Green Pump
The Robot is going Home
The Robot has reached Home
=====
Group X: End of Program
=====
```

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## [*Deliverables & Compilation*]

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**3/5 pts** Submission Completeness.

- ☐ Your submission includes unnecessary directories. Only your package needed to be submitted.