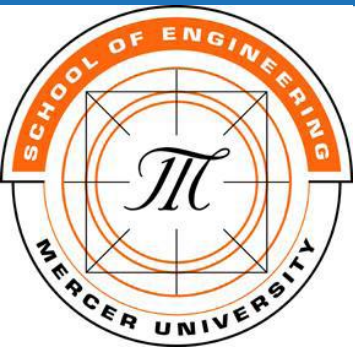


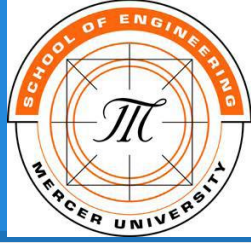
SLAM in an Unknown Environment using ZED and Jetson TX1



Matthew R. Deremer, Electrical Engineering
Luke J. Pace, Computer Engineering
Christopher A. Woiwode, Mechanical Engineering

October 11th, 2016

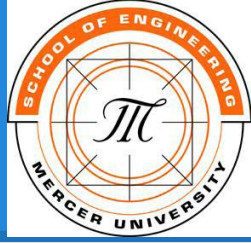
SLAM



- Brief 2 sentence description of project & deliverable.
For example: Develop a prototype remote control widget that will allow dog owners walk their dog remotely via the web.
- Client: Dr. Choi

Graphics

Design Status

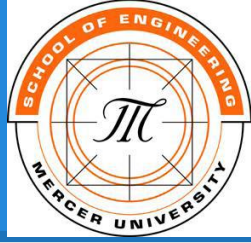


Status:

- Feasibility Criteria:
- Specifications:
- Design analyses and calculations:
- Preferred design has/has not been selected
- Final drawings and documentation:

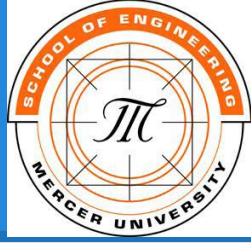
- PDR Scheduled:

Favored Preliminary Design



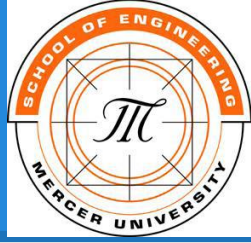
Include one overview of your favorite design approach (sketch if have one)

Current Project Schedule



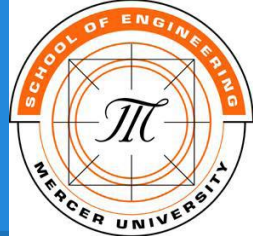
- Is project on schedule? YES/NO
 - If NO, Why?
 - How will you meet your completion date?
 - Show Gantt chart
- When did you last meet with your client?
 - 5 days ago.
- When did you last meet with your Tech. Advisor?
 - 12 days ago.

Current Issues



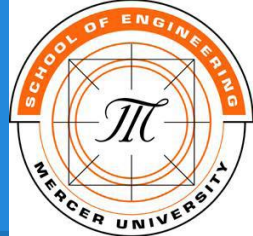
- Highlight any major problem that could delay design completion
 - Do you need help or suggestions?

Gantt Chart



Estimated Start	Estimated Finish	Total Estimated days of Completion	Tasks	Jan 11th - 17th	Jan 18th - 24th	Jan 25th - 31st	Feb 1st - 7th	Feb 8th - 14th	Feb 15th - 21st
1/13/2015	1/30/2015	17	Gather Information	■	■	■	■	■	■
1/13/2015	1/26/2015	13	Write Proposal	■	■	■	■	■	■
1/26/2015	2/1/2015	6	Determine Design Alternatives			■	■	■	■
2/1/2015	2/3/2015	2	Determine Merit/Feasibility Criteria				■	■	
2/4/2015	2/7/2015	3	Conduct Engineering Analysis				■	■	■
2/7/2015	2/10/2015	3	Design Fixtures					■	■
2/10/2015	2/14/2015	4	Write CNC Code					■	■
2/16/2015	2/20/2015	4	Test CNC Code						■

Gantt Chart



Estimated Start	Estimated Finish	Total Estimated days of Completion	Tasks	Feb 15th - 21nd	Feb 22nd - 28th	March 1st - 7th	March 8th - 14th	March 15th - 21st	March 22nd - 28th	March 29th - April 2nd
2/20/2015	2/27/2015	7	Start Manufacturing Instructions							
3/2/2015	3/4/2015	2	Conduct Manufacturing Times Studies							
3/5/2015	3/7/2015	2	Create Assembly Diagrams							
3/7/2015	3/10/2015	3	Start Assembly Instructions							
3/10/2015	3/13/2015	3	Conduct Assembly Time Studies							
3/16/2015	3/17/2015	1	Compare Time Study Data							
3/17/2015	3/31/2015	14	Manufacture 20 Knees							
4/2/2015	4/2/2015	0	Deliver PDR							
8/17/2015	8/17/2015	0	Collect Info from Dr. Vo from MOM Trip							
8/17/2015	9/4/2015	18	Make Proper Changes to Design							
9/4/2015	9/25/2015	21	Manufacture Dr. Vo's Desired # of Knee							
9/28/2015	10/9/2015	11	Create Test Plan							
12/1/2015	12/1/2015	0	Deliver CDR							

Questions?

