

Elec 391 – 2023-201

Project Description

Jan –Apr 2024

High-Level RCGs

- Requirements

- All CCTs on PCB
- All mechanisms rigidly mounted
- Entire system in single package
- Connectors to all external inputs

- Constraints

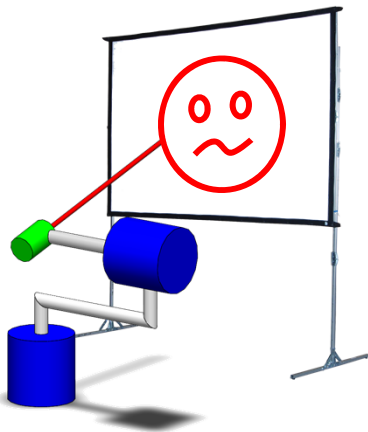
- Within UBC budget
- No tape or glue for mounting HW
- No un-soldered connections
 - Bread-boards

- Goals

- Best possible performance
- Cleanest possible implementation
 - Ribbon cables & cable ties
 - Screws & threaded parts

*** Extra features carry less weight than good design, implementation & verification

2-DOF Laser Animation



Any shape you choose

Features

- 2-DOF Spherical Wrist
 - Animated Image
- Robot
 - Pitch & Yaw
- End-Effector
 - Laser pointer
 - Mirror
- Technical Requirements
 - Analog CCT
 - Digital CCT
 - System & System model
 - Controller