

MEETING MINUTES

Topic: Capstone Northrop Grumman Handling Arm

Friday, 9/28/2018

Room 131, Cline Library

10:30am-11:30am

Minutes recorded by: Rayne Dobson

Meeting called by: Savannah Hillebrand

Attendees: Steven Hengl, Sami Scarcello, Savannah Hillebrand, Rayne Dobson, David McNealy, Keven Benevante

Please bring: Pen/Paper

Table 1. Record of meeting.

10:30 am to 10:35 am	Introductions <ul style="list-style-type: none">● Plan of meeting	Room 131
10:35 am to 10:45 am	Review of Background Presentation <ul style="list-style-type: none">● Review of existing products	Room 131
10:45 am to 10:55 am	Go Over Questions Written for Client <ul style="list-style-type: none">● Bench top: Wood table top, rubber mat on top● Maximum weight: 50lbs● Arm will not be subjected to extreme temperatures● Force requirement updated: 20lbs of force (35lbs)● No specific dimensions on size of arm (soft requirement: 3ftx3ft)● Want ability to bolt on interfaces (bolt patterns and clamping mechanism)● Possible similar design (FARO arm)● Should be manipulated with 1 hand (possible assisted with springs and shocks)● Soldering/bolting activities	Room 131
10:55 am to 11:00 am	Review Possible Design Issues/Concerns <ul style="list-style-type: none">● Locking/mechanical assist most important● ESD complaint should be easy to fulfill● Material should ne be a problem	Room 131

11:00 am to 11:05 am	Rank Customer Requirements <ul style="list-style-type: none"> ● Safety is top priority ● Budget is lowest priority (Better product for more money) 	Room 131
11:05 am to 11:20 am	Review of Upcoming Requirements <ul style="list-style-type: none"> ● PDR should be around the time of Preliminary report ● PDR is top 5 concepts/why choose them/ hand calculations/analyses ● Proposed budget (PDR) ● CDR will be end of first semester/beginning of second semester ● Northrop Grumman can 3D print for capstone ● Prototype should be 3D printed possibly ● Plan PDR for October 19th ● PDR should be about 1 hour 	Room 131
11:20 am to 11:30 am	Ending Meeting <ul style="list-style-type: none"> ● Conclusions ● Next PDR meeting to be set up 	Room 131

Table 2. Tasks Assigned.

Task	Person Assigned	Due Date	Date Complete
Set Up PDR Meeting	David	9/28/18	9/28/18
Send Meeting Notes to Steven	David	9/28/18	9/28/18

Next formal meeting: 10/1/2018, room 323, Engineering Building, at 6:30pm.