

## SNAP INTO MOTION

### SENIOR DESIGN

Project Manager: Samantha Sutherland

Client Contact: Allyson Labrum

Document Specialist: Jennifer Rainey

Communications: Jordan Simonson

Budget Management: Matt Guthrie

WBS	Tasks	Task Lead	Start	End
<b>1</b>	<b>Concept/Project Planning</b>	ALL TEAM MEMBERS	9/10/13	10/15/13
1.1	Standardized Documentation	Jennifer Rainey	9/10/13	9/16/13
1.2	Client Visits	Jennifer Rainey	9/27/13	9/27/13
1.3	Develop Project Timeline	Samantha Sutherland	9/27/13	10/3/13
1.4	Develop Product Definitions	All Team Members	9/10/13	10/9/13
1.5	System Specification	Jennifer	9/10/13	10/9/13
1.6	Qualitative Analysis	All Team Members	10/3/13	10/7/13
1.7	Project Budget	Matt Guthrie	10/1/13	10/15/13
1.8	<b>DUE: Logbook (w/review form) &amp; Portfolio</b>		10/8/13	10/10/13
1.9	<b>Snapshot Day</b>		10/15/13	10/15/13
1.10	<b>DUE: Wikipage meeting mid-semester requirements - to your lead instructor</b>	Jordan Simonson	10/18/13	10/18/13
<b>2</b>	<b>Design and Manufacturing</b>		10/3/13	1/30/14
2.1	Hardware Specifications		10/15/13	10/19/13
2.1.1	Function requirements		10/3/13	10/3/13
2.1.2	Performance requirements		10/3/13	10/3/13
2.2	Project Design		10/3/13	11/1/13
2.3	Team Design review		11/4/13	11/15/13
2.4	<b>DUE: Design Review (w/client &amp; lead instructor)</b>	All team members	11/4/13	11/15/13
2.5	<b>DUE: Logbook (w/review form) &amp; Portfolio - to your lead instructor</b>	All team members	11/11/13	11/11/13
2.6	<b>DUE: Team Member Citizenship - to your lead instructor by COB</b>	All team members	11/22/13	11/22/13
2.7	CAD Prototype		1/16/14	1/30/14
2.7.1	CAD Liner Loader	Samantha Sutherland	1/16/14	1/30/14
2.7.2	CAD Liner Applicators		1/16/14	1/30/14

2.7.3	CAD Drawings/ Dimensioning	Sam & Matt	1/16/14	2/4/14
2.8	Order Stand	Jennifer Rainey	1/16/14	1/22/14
2.9	System Programming	Jennifer	1/16/14	2/5/14
2.9.1	Track/Actuator integration		1/16/14	3/16/14
2.9.2	Linear Accuator Selection		1/16/14	1/16/14
2.9.3	Calibrate Pressure Senors		1/16/14	2/14/14
2.9.4	Donning Code Development		1/16/14	2/14/14
2.9.5	Linear Actuator/Pressure Sensors		1/16/14	2/14/14
2.10	Liner Loader	Jordan & Sam	1/30/14	2/13/14
2.10.1	Pin Locking Mechanism	Sam	1/22/14	1/28/14
2.10.2	Stand Locking Connection	Jordan	1/22/14	2/4/14
2.10.3	Manufacturing Material	Aluminum	1/16/14	1/22/14
2.10.4	Cup Attachment to Pylon		1/30/14	2/12/14
2.10.5	Umbrella Cup Design	Mattt	1/16/14	1/22/14
2.10.6	Manufacturing Cup Material	Carbon Fiber	1/22/14	2/4/14
2.11	Liner Applicators		1/22/14	2/5/14
2.11.1	Gripper Material	Aluminum with Leather	1/22/14	1/28/14
2.11.2	Connection to linear actuators		1/22/14	2/4/14
2.12	Limb Rest	Jennifer	2/3/14	3/4/14
2.12.1	Limb Rest Design		2/3/14	2/17/14
2.12.2	Limb Rest Material		2/3/14	2/17/14
2.12.3	Rest Base Connection to Stand		2/3/14	2/17/14
2.13	Transtibial Liner Donning System		2/17/14	3/11/14
2.13.1	Connect Applicators to Actuators		2/17/14	3/8/14
2.13.2	Mount Track Actuators to Stand		2/17/14	3/8/14
2.13.3	Mount Controls to Stand		2/17/14	3/8/14
2.13.4	Connect Liner Loader		2/17/14	3/8/14
2.13.5	Mount Limb Rest		2/17/14	3/2/14
<b>3</b>	<b>Validation and Testing</b>	All team members	1/17/14	4/13/14
3.1	Validation test results		3/15/14	4/13/14
3.1.1	design FMEA		2/15/14	3/16/14
3.1.2	Amperage draw on acutators		1/28/14	3/13/14
3.1.3	Implement Relay for arduino		1/28/04	3/12/04
3.2	Schematics		2/3/14	3/4/14
3.3	Test procedures		1/17/14	1/22/14
3.4	<b>DUE: Detailed Design Review</b> <b>(w/client &amp; lead instructor)</b>		2/3/14	2/14/14
<b>4</b>	<b>Reviews and document Retention</b>	Jennifer Rainey	3/3/14	5/9/14
4.1	OASIS Abstract		1/15/14	2/13/14
4.1.1	Introduction		1/15/14	2/13/14
4.1.2	Product Design		1/15/14	2/13/14
4.1.3	Budget		1/15/14	2/13/14
4.1.4	Market Analysis		1/15/14	2/13/14

4.2	Design Report	12/12/13	4/30/14
4.2.1	Background	12/12/13	12/18/13
4.2.2	Problem Definition(Inlude Specs)	12/12/13	12/18/13
4.2.3	Plan(Tasks, Schedule)	12/12/13	3/11/14
4.2.4	Concept Exploration/Selection	12/12/13	3/11/14
4.2.5	System Design	12/12/13	3/11/14
4.2.6	Implementation/Testing	12/12/13	3/11/14
4.2.7	Budget Summary	1/3/14	4/2/14
4.2.8	Recommendations	3/1/14	3/14/14
4.3	<b>DUE: Logbook (w/review form) - by COB</b>	3/3/14	3/3/14
4.4	<b>DUE: Expo Registration and Information</b>	3/4/14	3/4/14
4.5	<b>Snapshot Day 3</b>	3/11/14	3/11/14
4.6	Poster Board Creation	3/15/14	3/19/14
4.7	Poster Board Printing	4/15/14	4/19/14
4.8	<b>DESIGN EXPO</b>	5/2/14	5/2/14
4.9	<b>DUE: Final Report, Website, Logbook (w/review form) - by COB</b>	5/9/14	5/9/14
4.10	Sub Task level 2	5/1/14	5/1/14

**TEMPLATE ROWS:** Copy and insert the entire section, or just the specific sub tasks, depending on which level you want to use (formula

<b>1</b>	<b>Task Category 1</b>	<b>10/15/13</b>	<b>10/15/13</b>
1.1	Sub Task level 2	10/15/13	10/15/13
1.1.1	Level 3 Task	10/15/13	10/15/13