

VT1 Team2 EneRec Dryer

Jun 27, 2023

The University of British
Columbia. Okanagan

<http://>

Project manager

Project dates

May 18, 2023 - Aug 27, 2023

Completion

96%

Tasks

79

Resources

10

VANT 151 multidisciplinary engineering project

Tasks

Name	Begin date	End date
Start	5/18/23	5/18/23
1. Structural	6/1/23	6/30/23
1.1. Enclosure	6/8/23	6/30/23
1.2. Openings/holes	6/1/23	6/20/23
1.2.1 Water Outlet Hole	6/1/23	6/20/23
1.2.1.1. Design	6/1/23	6/17/23
1.2.1.2. Laser Cutting	6/1/23	6/20/23
1.2.2 Door openings	6/1/23	6/20/23
1.2.2.1. Design	6/1/23	6/17/23
1.2.2.2. Laser Cutting	6/1/23	6/20/23
1.2.3 Lint filter openings	6/15/23	6/20/23
1.2.3.1. Design	6/15/23	6/19/23
1.2.3.2. Laser Cutting	6/15/23	6/20/23
1.2.4 LCD Openings	6/1/23	6/20/23
1.2.4.1. Design	6/1/23	6/17/23
1.2.4.2. Laser Cutting	6/1/23	6/20/23
1.2.5. Buttons openings	6/1/23	6/20/23
1.2.5.1. Design	6/1/23	6/17/23
1.2.5.2. Laser Cutting	6/1/23	6/20/23
1.3 Door & latch	6/1/23	6/22/23
1.3.1. Design alternatives	6/1/23	6/11/23
1.3.2. Design Solidworks	6/11/23	6/18/23
1.3.3. Assemble Door & Latch	6/18/23	6/22/23
1.4 Tray, std. design	6/14/23	6/20/23
1.4.1. Design and Print	6/14/23	6/16/23
1.4.2. Assemble tray, std	6/16/23	6/20/23
2. Mechanical Systems	5/18/23	6/22/23
2.1. Drum	5/18/23	6/6/23
2.1.1 Drum structure	5/18/23	5/24/23
2.1.2. Drum drive	5/22/23	5/23/23
2.1.3. Back ring	5/22/23	6/6/23
2.2. 3D Printed Parts	6/1/23	6/22/23
2.3. Sensor mount	5/31/23	6/1/23
2.3.1. 3D model	6/1/23	6/1/23
2.3.2. Sketch	5/31/23	6/1/23
2.4. HX, std. design	5/29/23	6/7/23
2.5. Motor Mount	5/28/23	5/28/23
3. Electrical/electronic:	5/23/23	7/31/23
3.1. Motor & fan (DC control)	5/23/23	6/26/23
3.1.1. Motor and fan circuits	5/23/23	6/26/23
3.1.2. Coding (Motor & Fan)	5/29/23	6/6/23

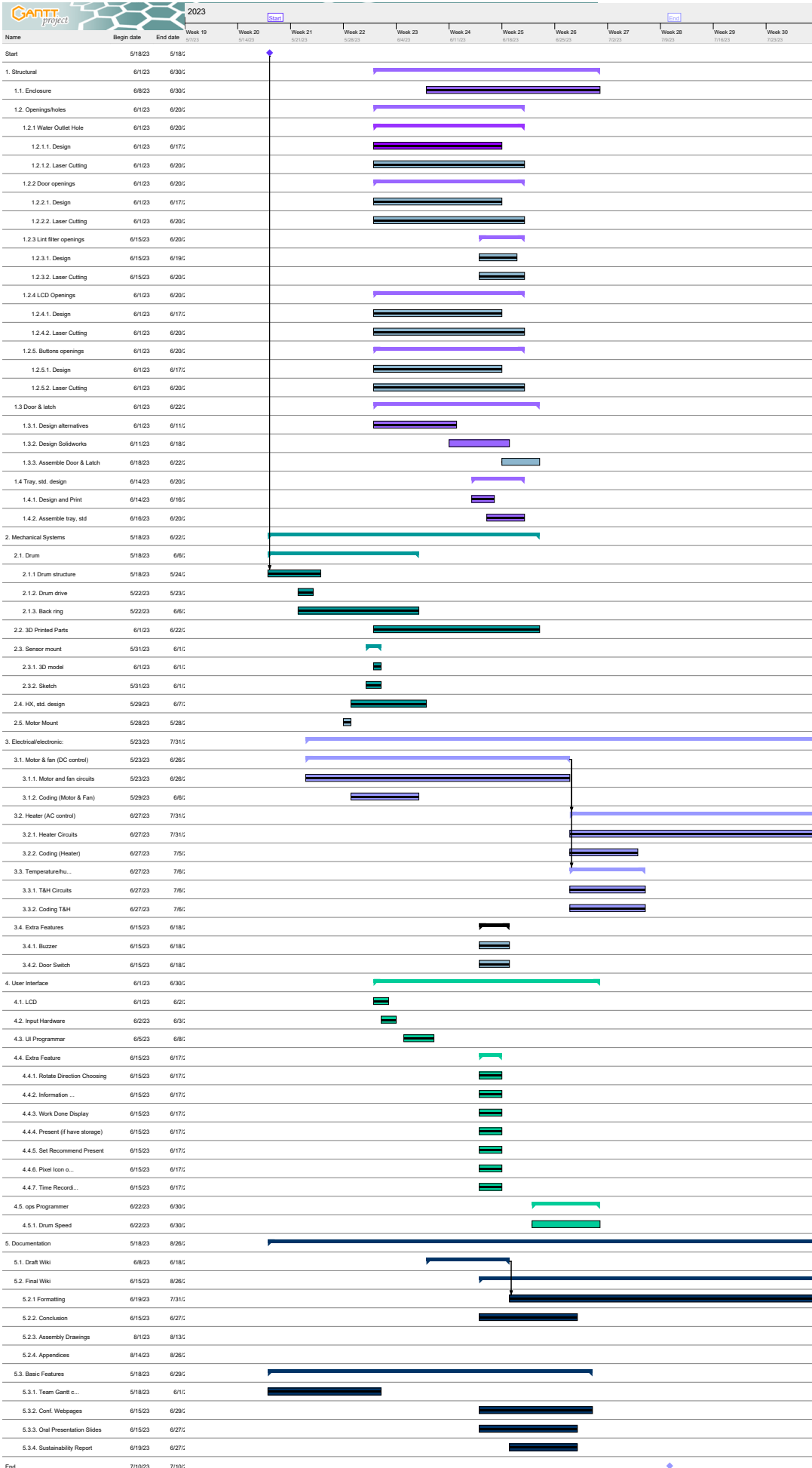
Tasks

Name	Begin date	End date
3.2. Heater (AC control)	6/27/23	7/31/23
3.2.1. Heater Circuits	6/27/23	7/31/23
3.2.2. Coding (Heater)	6/27/23	7/5/23
3.3. Temperature/humidity sensor (feedback control of heater)	6/27/23	7/6/23
3.3.1. T&H Circuits	6/27/23	7/6/23
3.3.2. Coding T&H	6/27/23	7/6/23
3.4. Extra Features	6/15/23	6/18/23
3.4.1. Buzzer	6/15/23	6/18/23
3.4.2. Door Switch	6/15/23	6/18/23
4. User Interface	6/1/23	6/30/23
4.1. LCD	6/1/23	6/2/23
4.2. Input Hardware	6/2/23	6/3/23
4.3. UI Programmar	6/5/23	6/8/23
4.4. Extra Feature	6/15/23	6/17/23
4.4.1. Rotate Direction Choosing	6/15/23	6/17/23
4.4.2. Information Display on LCD Realtime (humidity/temperature)	6/15/23	6/17/23
4.4.3. Work Done Display	6/15/23	6/17/23
4.4.4. Present (if have storage)	6/15/23	6/17/23
4.4.5. Set Recommend Present	6/15/23	6/17/23
4.4.6. Pixel Icon of Option (if possible)	6/15/23	6/17/23
4.4.7. Time Recording (and time limit setting)	6/15/23	6/17/23
4.5. ops Programmer	6/22/23	6/30/23
4.5.1. Drum Speed	6/22/23	6/30/23
5. Documentation	5/18/23	8/26/23
5.1. Draft Wiki	6/8/23	6/18/23
5.1.1. Introduction	6/8/23	6/17/23
5.1.2. Team Requirements	6/18/23	6/18/23
5.2. Final Wiki	6/15/23	8/26/23
5.2.1 Formatting	6/19/23	7/31/23
5.2.2. Conclusion	6/15/23	6/27/23
5.2.3. Assembly Drawings	8/1/23	8/13/23
5.2.4. Appendices	8/14/23	8/26/23
5.3. Basic Features	5/18/23	6/29/23
5.3.1. Team Gantt chart (in final wiki)	5/18/23	6/1/23
5.3.2. Conf. Webpages	6/15/23	6/29/23
5.3.3. Oral Presentation Slides	6/15/23	6/27/23
5.3.4. Sustainability Report	6/19/23	6/27/23
End	7/10/23	7/10/23

Resources

Name	Default role
Zizhuo Fan	Mechanical
Yik Hin Matthew Lau	User Interface
Tingxin Zheng	Structural
Rosha Dowlatzarei	Documentation
Reind Masri	Documentation
Molin Li	Electrical
Lucas Lyu	Electrical
Hengshuo Zhang	Mechanical
Frances Chen	Structural
Fengwei Huang	User Interface

Gantt Chart



Resources Chart

