

			Calendar Week																			
Task	Target (h)	Actual (h)	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
Project start																						
Problem analysis and concept developement	12																					
Administration and project planning	12																					
Literature	5																					
Line Cutter																						
Investigation of options	12																					
Testing of line cutters	12																					
Design	8																					
Hardware																						
Detail block diagram and core component evaluation	5																					
Schematic design, bill of material (BOM) and Component ordering	20																					
PCB Layout	24																					
Review and production preparation	20																					
Assembly and Testing	36																					
Mechanical design	12																					
Firmware			MS1																			
Installation and familiarization with IDE, programmer, RTOS and setup	8																					
Concept design	5																					
Implementation of USB-Interface	8																					
Implementation of Sensors	20																					
Implementation of Telemetry	15																					
Integration of modules and main application	20																					
System testing			MS2																			
Software Tests	8																					
Cutting Tests	5																					
Redundancy Tests	5																					
Documentation			MS3																			
Requirements Specification / Report	76																					
Abstract / Poster / Elevator speech (video)	12																					
Total (h):		360																		MS4	MS5	

Target	
Actual	

Milestone	Description
MS1	Hardware design finished and production start
MS2	Firmware key-requirements implemented
MS3	System integration tests validated
MS4	Submission date for abstract: xxxxxxxx
MS5	Submission date for thesis: 03.06.2022