

Team member responsibilities

Total time: 6-7 months

Phase	Week	Goal	IT Technician [Luke]	Elektriker [Darko]	Chemiker [Christoph]	Mechanical engineer [Ramo]
Phase 1: Project planning and conception	2	Define requirements, create drafts, distribute tasks	Selection of Arduino and sensors, Planning a control system	Create circuit diagram, select components	Calculation of fuel quantity, safety concept	Create CAD model, select materials, ;
Result: Project plan, bill of materials, safety concepts, CAD model						
Phase 2: Material procurement and preparation	4	Procurement of all materials and components	Ordering Arduino, GPS, IMU, Sensors	Ordering of cables, motors, batteries	Procurement of ethanol, N ₂ O, tanks, safety equipment	Order of carbon fiber, aluminum, tools
Result: All materials and tools ready						
Phase 3: Construction of the rocket design	8	Manufacturing and assembly of the	Integration of Arduino components,	Wiring and installation of electronic		Laminating the carbon fiber, assembly

		rocket structure	preparation of wiring	components		ng aluminum parts, integrating gimbaling system
Phase 4: Setup of the propulsion system and fuel tests	6			Fuel system integration, carry out tests	Integration and testing of the gimbaling and propulsion system	
Result: Functional and tested drive system						
Phase 5: Electronics and Software Development	10	Development and integration of software and electronics	Development of the software, integration of the sensors, calibration	Setting up the power supply, integrating the cabling		
Result: Fully developed and tested Arduino controller						
Phase 6: Soil testing and adjustment	5	Testing of all systems under realistic	Software Testing, Calibration, Telemetry Testing	Load tests, checking the cabling	Fuel Safety Tests, Adjustments	Static tests of the gimbal system Final

		conditions				acceptance
Result: Ready-to-go, tested prototype						
Phase 7: Launch preparation and test flight	3	Execution of the test flight Evaluation of the data	Verification and calibration Monitoring of the start	Control of electrical systems, parachute deployment		Fuel Refueling & Monitoring Final structural review, preparation for launch
Result: Successful test flight, data evaluation						