- Happy: 😍😁😂😃😊🤓😇
- Neutral: 😐😬🥶🤓😐😶
- Not amused: 🙁🤨🙄😠😱🙀😈😭
- More emojis: 🎉🪂🦩🐮👴🙇🍍🫖🐰💝👵👹

Figure 1: fh_patch.png

Welcome to the main page of Firehorn !{.is-info}

Firehorn is the EPFL Rocket Team's inaugural cryogenic bi-liquid rocket, operating on an innovative architecture. Anticipated to embark on its maiden 9km flight in late 2025 as part of the European Rocket Championship Competition, it is designed from the ground up with the constraints of a 30km flight, which should occur during 2026.

- :book: Documentation (DOC)
- :rocket: Launch Vehicle Overview (LVO)
- 📔 Design Requirements List (DRL) {.is-warning} {.links-list}

Systems Engineering

- :policeman: Systems Engineering (SE) System Engineers ensures that the project's objectives are met, using various tools. {.links-list}

Subsystems

- 🔋 Avionics (AV) The complex electronic brain of Firehorn, managing most of the events.
- 🌊 Flight Dynamics (FD) A team that exploits different simulators and CFD tools to anticipate the in-flight vehicle behaviour.
- 🧱 Ground Segment (GS) A subsystem dedicated to build most of the ground based systems that allow for monitoring and communication with the launch vehicle.
- 🧪 Payload (PL) The payload subsystem gets to design a scientific experiment, as well as other accessories.
- 🪂 Recovery (RE) A subsystem focusing on the parachute assembly of the vehicle.
- 💪 Structure (ST) They ensures Firehorn's structural integrity and integrates the other subsystems.
- 🔥 Propulsion (PR) They get to design the engine assembly that'll propell Firehorn to supersonic speeds. {.links-list}

Tools

- 3DExperience All the CADs, assemblies and technical drawings.
- :smile_cat: Github Software development
- :open_file_folder: Firehorn Drive Google Drive
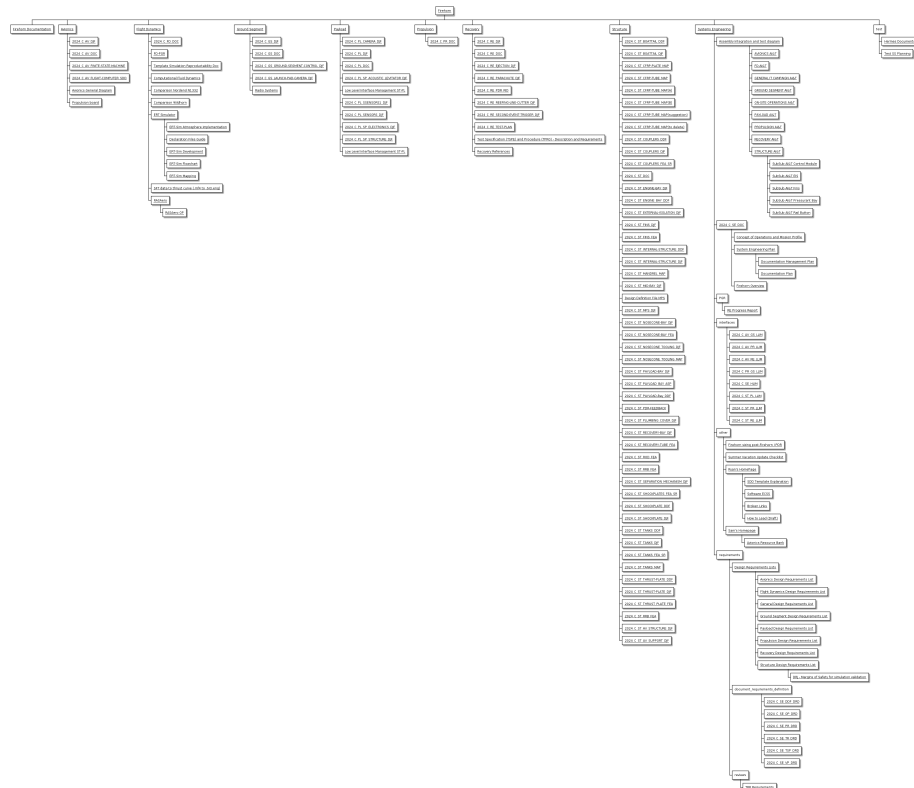- 💬 Slack ERT's dedicated messaging app

{.links-list}

Useful Information

- Nomenclature
- Acronyms {.links-list}

Wiki Map

Clickable Wiki Map with actual State of wiki

Target Wiki Map

PHN2ZyB4bWxucz0iaHR0cDovL3d3dy53My5vcmcvMjAwMC9zdmciIHhtbG5zOnhsaW5rPSJodHRwOi8vd3d3LnczLm9y