Teamwork
- Comprising 4 interconnected teams.
- R&D
  Research on the state of the art of design and manufacture of water rocket technologies.
- Design
  Conceptualization and concept evaluation
  Modelling and design analysis
- Materials and Manufacturing
  Material selection and sourcing
- Manufacturing of parts
- Systems
  Design and manufacture of parachute deployment mechanism

Sustainability
- Recycling of old materials like bottles and cardboard
- Recycling of the rocket possible
- No use of serious pollutants

Innovation
- Heating based joining method for the upper/lower bodies

Safety
- Use of light materials
- Controlled flight
- Secure parachute deployment

Design Justification
- Fins
  Balancing stability vs fin drag
  Maximizing aesthetic quality
- Parachute deployment
  Experimental analysis to minimize deployment time
- Fuel to air ratio
  Parametric studies and optimization for longest flight time
- Nose shape
  Aerodynamic analysis for minimum drag

TEAM VLISSINGEN 1
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