



Overview team functions



Who are we?

We are a student team from the Eindhoven University of Technology that focuses on the future of sustainable mobility. Our team changes with every concept car that we build and currently exists out of 30 students from 8 different studies from the Eindhoven University of Technology as well as Fontys University of Applied Sciences.



Functions team

Management team



from dream
to demo

TUrecom

Team manager

Full time

A team manager focuses on creating a unified and motivated group. They promote effective communication, build a positive team culture, and encourage member collaboration. The manager creates a supportive environment, acknowledging individual strengths, and facilitating teamwork. By organizing team-building activities and creating open dialogue, the manager enhances interpersonal relationships and morale. This approach contributes to a unified team that can collectively tackle challenges, fostering a positive and inclusive atmosphere perfect for learning and growth within the student team.

Disciplines



Coordinate

Lead

Represent

Manage

Project manager

Full time

A project manager in a student team oversees project planning, coordinates team efforts, and manages resources and timelines. They minimize risks, ensure quality, and make informed decisions. Communication is key, as the manager keeps stakeholders informed about progress and adjusts plans as needed. Motivating and supporting team members, the manager creates a positive, collaborative environment.

Disciplines



Coordinate

Planning

Monitoring

Structure

Technical team

Within our technical team, there are various squads where each squad is responsible for a different functionality of the car, we distinguish six squads :
Vehicle dynamics, chassis, drivetrain, control networks, interior and body



Technical manager

Full time

As technical manager, you are responsible for making sure that the technical team is on one line and that at the end of the year, every part in the car fits together. You will be working with people from various backgrounds and will learn a lot about every aspect of building a car. Besides this, you will also improve your management and planning skills to ensure your team runs efficiently.

Disciplines



Initiative



Leading



Coordinate



Adaptable

Vehicle Dynamics

Part-time and full time

Vehicle Dynamics contains everything that is concerned with vehicle handling, thus that contains the suspension, steering, brakes, and the wheels. From designing to finding parts and doing calculations for strengths, sizes and rotations. As lead engineer of this module, you mostly facilitate the process of the team members to work together with the other teams and within our team, though you also have your own parts to take care of. All of this is done keeping our new concept car in mind and solving problems on the go.

Disciplines



CAD

Collaborative

Mechanical

Automotive

Chassis

Part-time and full time

The chassis is the part of the car that carries the rest of the car, in Eterna this is the ladder frame at the bottom with the tubular spaceframe on top. They work closely with the system architect because the chassis changes how the layout of the car works. The structural integrity of the car is the responsibility of chassis team.

Disciplines

CADCollaborativeMechanicsDesign
principles

Drivetrain

Part-time and full time

As a drivetrain engineer, your task is to make sure the car can drive. This means you have to do some calculations on the torque and power of the motors, determine what kind of drive will be implemented in the car and determine if a transmission is needed and what kind.

Besides that, the batteries are also part of this module, so it should be determined which batteries to use, whether they provide enough power for the motors and (together with the other modules) where the batteries should be placed.

Disciplines



CAD

Collaborative

Electrical

Mechanics

Control Networks

Part-time and full time

As a control network engineer, your task is to create the electrical and software network of the car. This includes creating a communication system through which the electrical components can communicate with each other. Designing an electrical circuit and powering all components is also part of this module. Such components are the lights, possible buttons, sensors, microcontrollers, etc

Disciplines



Electrical

Collaborative

Software

PCB design

Interior and Design

Part-time and full time

As a Sustainable Car Designer you are responsible for creating innovative and sustainable designs for both the interior and exterior of vehicles. You will play a crucial role in shaping the future of mobility by developing environmentally friendly and aesthetically pleasing designs that improve both vehicle performance and sustainability. You will work closely with multidisciplinary teams, including engineers, material specialists and marketers, to realize the vision for sustainable vehicles.

Disciplines

 Creative Collaborative Design ADOBE

Sustainability & Materials

Part-time and full time

As a sustainability manager you are the person that monitors the sustainability goal of the project and helps point out areas of improvement. Furthermore, other members help contribute towards the sustainability goal of the concept. This can either be through an LCA or helping the technical team make choices on material usage. As material manager you do research on a variety of materials and their possible usage but also look at how they fit with the sustainability goal. This role is closely related to the sustainability, so you contribute to both tasks.

Disciplines



LCA

Collaborative

Sustainability

Flexible

Business Team

The business team is responsible for the marketing and event , finance and business part of the team.



Finance manager

Part-time

As a finance manager, you are responsible for ensuring the stability and health of the organization by keeping track of the account and making important decisions when it comes to major expenses. Moreover, you are also in charge of the budget plan for the entire year, meaning you take into consideration all the expenses from all the different sub-teams. Being the finance manager also means that you have to do the tax declaration or order different components for the car. Such a role gets you eventually involved in the different phases of the project as you are constantly in contact with your teammates and provide them with the necessary tools to help them reach their goals.

Disciplines



Budgeting

Business

Communicate

Coordinate

Business manager

Part-time and full time

As a business manager, you are responsible for overseeing different aspects of the organization. From marketing to events or partners, you will be mainly focused on working together with the managers to develop the image of the team. Furthermore, you will be involved in the different project phases in developing a business plan that supports the vision, mission, and concept aiming to inspire and reach more audiences. Such a role will require you to learn different topics and to constantly work together with different teams to have a clear understanding of the project and reach a common goal.

Disciplines



Marketing



Sales



Adaptability



Communicate

Acquisition manager

Part-time and full time

As an external relations and partner manager, you are responsible for all contacts with companies and partners. You maintain contact to keep them informed of the project and conclude contracts to obtain the necessary materials. You also give presentations and explanations to companies, the university and other interested parties

Disciplines

NetworkingStrategicSalesCommunicate

Marketing manager

Part-time and full time

The role of Marketing and Communication involves two key aspects. You play a crucial role during conceptualizing to ensure that the product is not only technically sound but also marketable, captivating the intended audience. In addition, you'll be at the forefront of communication, handling press and media inquiries, and strategically presenting the concept to the target audience. Your goal at the end of the year is to leave a lasting impact!

Disciplines



Illustrator

Marketing

Creative

Business

Event manager

Part-time and full time

As an event manager, you are responsible for all the events surrounding the student team. You will coordinate logistics, manage budgets, and ensure effective communication within the team and with external companies. Your role also includes organizing the concept and final presentation of the car. Finally, you also contribute to the Marketing & Event committee, so are also involved in the recruitment and Marketing part of the team.

Disciplines



Coordinate

Planning

Business

Marketing