

ELECTRONIELECTRONICS

Software Engineer: Perception



Green Innovation meets performance

Our Project

Formula Electric Belgium is a student-based race team that pushes green innovation to performance. We design and build our own electric race car each year to participate in the international Formula Student competitions. This year, we are looking for pioneers to challenge the status quo and bring our top-notch electric race car to the next level. As a postgraduate student, you will research, design, test your systems together with a group of highly motivated, ambitious students. You will work together with your team members and numerous companies to develop new innovations.

Function

You will be responsible for optimizing the detection of the track for the **driverless package of the car**, by integrating a stereo camera in the algorithm and improving the filtering on the LiDar.

At our company, we are embarking on an ambitious project to design and develop a **hybrid electric race car** that seamlessly integrates both autonomous and human-operated capabilities.

As a key member of our team, you will be responsible for optimizing the **perception capabilities of the car**, specifically with regards to detecting the race track.

This will involve implementing advanced technology such as a **stereo camera and enhancing LiDar filtering**. Additionally, you will collaborate closely with our partners to integrate **machine learning algorithms** into the vehicle's system.

Profile

- Bachelor/Master Engineering Science, Engineering Technology or Business Engineering
- Strong coding skills in C and C++
- Well-organized
- Team player
- Eye for detail

Returns

- Experience in an unique field of expertise
- Gain exposure to cutting-edge technologies and industry-leading organizations
- Possibility to network and cooperate with international stakeholders
- A summer packed with international racing competitions!

Up for the challenge?



Submit your **resume** and **motivation letter** (one page) to recruitment@formulaelectric.be