



# Software Battery Application

## Green innovation meets performance

### Our Project

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Formula Electric Belgium is a team of engineering students who build a **Formula-Student racecar** to compete in international competitions. We design and build a brand-new car every year and compete with other teams in multiple worldwide competitions during the summer months. Formula Student is by far the biggest **engineering competition** in the world and continues to grow. From next year on, we will be competing in both the **electrical** and **driverless** competition. You can join the project as a volunteer, this allows you to contribute to the next race car whilst keeping a flexible schedule.

### Tasks

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One of the most essential components in our car is the battery. This **600V battery** needs to be handled with care and is not short on risks. This means that it is important to be able to **monitor** the battery's voltage, current and **faults**.

We use a battery management system that can send out these faults and other data by writing commands through a **USB** connection. It will be your job to make a **GUI** that automatically and periodically polls the battery's information and display them on the GUI.

### Profile

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- Programming knowledge
- Out-of-the-box thinker (creativity)
- Team player with a goal to learn

### Returns

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- A unique engineering experience
- Contact with companies at the leading edge of technology
- Applying your engineering skills in the real world
- Developing your hard- and soft-skills in a company-like environment
- Work in a team with young motivated engineers

### Up for the challenge?

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Want to do a similar case within the team? Submit your **resume** and **motivation letter** (one page) to [volunteers@formulaelectric.be](mailto:volunteers@formulaelectric.be)