

HOPPER Embedded Software Engineer



About Hopper

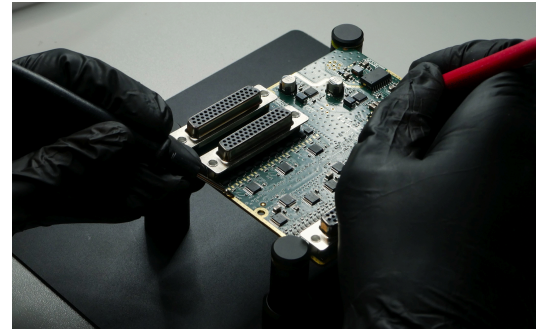
Hopper is one of Europe's most ambitious student rocketry projects. Our goal is to push the boundaries of student aerospace engineering by developing a throttling rocket engine, avionics modules, embedded software, ground systems, and more—all to demonstrate one of the first vertical landing rockets in Europe.

We are looking for passionate and motivated students to join our journey. Prior experience in rocketry is not required—curiosity, dedication, and a drive to solve technical challenges are what matter most.

Your Role

As an embedded software developer for the Hopper Project, you will be part of the electronics team, responsible for coding microcontrollers, developing control and analysis software for both, the rocket and ground segments, and designing the internal communication infrastructure using various bus systems.

- Fix existing bugs and prevent future ones
- Learn about the use cases and requirements of other teams
- Test out new tech stacks and improve the current one
- Improve automated testing
- Collaborate on features and help set the direction for upcoming ones



Requirements

- Enrolled at RWTH Aachen University or FH Aachen.
- Highly motivated and eager to learn.
- Independent problem solvers with strong teamwork skills.
- Fluent in German and English.

Technical Skills (preferred)

- Experience writing C/C++ code for embedded systems (robotics, drones, vehicles, etc.).
- Familiarity with version control, testing, and software best practices.

What You'll Gain

- Be part of building Europe's largest rocket hopper.
- Apply your academic knowledge in real engineering challenges.
- Join rocket test campaigns and see your work in action.
- Build a strong network in the space industry.
- Develop practical experience with cutting-edge technology.

Application Steps

If you are interested in applying, please submit the following documents to application@sta.rwth-aachen.de:

1. **CV:** An up-to-date CV outlining your academic background, experience and relevant skills.
2. **Motivational Letter:** A short letter explaining your interest in the project, your qualifications, and how your goals align with our project.
3. **Description of past engineering projects** (if available): A document summarizing key engineering projects you have worked on, including your role, the project objectives and technologies used.

Please ensure all documents are in PDF format.

Step 1

Application Received

Step 2

Resume review

Step 3

Short Phone Call

Step 4

Interview

Step 5

Offer!



Space Team Aachen e.V.

Email: application@sta.rwth-aachen.de

Web: www.spaceteamaachen.de

Registergericht: Amtsgericht Aachen
Registernummer: 5991