

## Software Programmer Firmware/Embedded Systems (C++)

Want to work on different innovative projects? Do you want to work together with different disciplines in your team? As an Embedded Systems Programmer you will help develop our own Operating System "TacOS", based on FreeRTOS. You will work on adding new system functionalities, such as controlling vibration motors, pairing new sensor data, but also basic functions as ON/OFF and battery-management of Elitac hardware. In addition, you will be professionalizing the software with the aid of test protocols, improving the project design and keeping TacOS running stably.

### Who are we?

Elitac is a young, growing company specialized in the development of innovative wearables by integrating electronics into textiles. Since we won the 'Defense Innovation Competition', we have developed a vest in close cooperation with the Ministry of Defense. With the vest the soldier can feel navigation information and communicate covertly. In a collaboration with multinational Teijin Aramid, we developed tactile navigation. Drivers of Fire Department Groningen feel navigation information through vibrations in their car seats. At the moment we are developing a sensor shirt for top athletes, electronics as the basis for a smart firefighter suit and custom hardware for various research projects.

Elitac has all the expertise to create wearables from idea to production (hardware, software, product design, integration in textiles and certification).

### Profile

- You are a programmer with Embedded Systems affinity;
- You like to be hands-on; you work closely together in a team with all kinds of different specialties of hardware development, design and R&D.
- You like to sort out new functionalities and you have a broad perspective.

### Requirements

- You have some years of experience with developing firmware and/or communication protocols;
- You have a technical bachelor or master completed;
- Excellent control of C++ and Java;
- Knowledge of hardware protocols like I<sup>2</sup>C and SPI are preferred;
- Experience with developing and maintaining Android applications is preferred;
- Experience with protobuf or other serialization libraries for C++ are preferred.

### We offer

- Annual contract with prospects for a permanent position;
- Competitive salary;
- A challenging position in a young and ambitious team;
- Internal coaching and training;
- Lots of independence and freedom in the execution of the job;
- Informal work environment with startups, good coffee, daily lunch and fruit near Utrecht CS.

Are you the Software Programmer we are looking for and do you want to meet us at our office in Utrecht? Send your motivation and resume to Martin van den Berg ([m.vandenberg@elitac.nl](mailto:m.vandenberg@elitac.nl)). *Acquisition based on this vacancy is not appreciated.*