



# Embedded Software developer at SODAQ

## *Function Description*

### **Overview of job responsibilities:**

As an embedded software developer you're responsible for programming embedded devices by yourself and also within a team. You will work closely together with the other embedded hardware, software and mechanical engineers. The main language spoken in our office is English and you will be required to have full proficiency on this. SODAQ is a relatively small company and you will be required to be flexible to quickly switch between tasks and work on multiple projects simultaneously.

You will need to have a good understanding and have experience with microcontrollers, analog and digital circuits and using these in a low-power setup.

### **Requirements:**

- Bachelor degree in Computer Science, Software Engineering or a related discipline
- Professional proficient in English (speaking & writing), Dutch is a bonus
- At least 2 years in Embedded Software Development
- Strong programming skills in C/C++, other languages are a bonus
- Experience with debugging embedded systems (over JTAG, SWD etc)
- Be able to design and develop software which meets customers' technical requirements
- Experience and working knowledge of low level protocols such as I2C, SPI & UART
- Be able to prepare and maintain technical documentation
- Be able to design and execute test plans and analyse and document the results
- Is able to work within a team and provide (and handle) constructive feedback during design reviews
- Open to learning new skills, using new tools and technologies

### **Preferred (optional) skills:**

- Experience with ultra low power, highly resource constrained, embedded devices.
- Experience with LoRa, GSM or LTE (CAT-M1, CAT-NB1).
- Ability to write drivers for external components such as sensor modules.
- Experience with Real Time Operating Systems (FreeRTOS, Zephyr, RIOT etc)
- Knowledge of networking protocols TCP/UDP/COAP/HTTP/MQTT etc.
- Experience with the Arduino Platform