

Embedded Systems Engineer Position

About NET2GRID

NET2GRID has since its foundation in 2012 been building an ecosystem consisting of low-cost in-home gateway devices that connect to the cloud based Service Delivery Platform. The gateways are available with common communication standards, such as Zigbee, WiFi, BLE, 868 and Ethernet. The Platform is cleverly engineered to process a nearly unlimited number of low-bandwidth messages from and to the gateways using multiple scaling server components.

Ynni is our advanced energy insight platform, reducing energy suppliers' cost to serve while increasing customer engagement. Greater energy consumption insights and deeper, more trusting customer relationships translate into reduced customer churn and opportunities for upsell. Ynni makes energy more meaningful to their customers. Its features include:

Appliance recognition, energy disaggregation, personal advice, challenges and gamification to save energy & cost and prevent customers' yearly bill shock

Is that something you'd like to contribute to?

Your Role

- Designing, testing and debugging of embedded systems - both hardware and software.
- Developing low-cost consumer gateways and meter interfaces from prototyping through to production and commercial deployment
- You work in a team; together you oversee software from development to production.
- You are and feel responsible for your software and hardware.
- You innovate on a daily basis, both from a functional and a technical standpoint.

Who you are

A Software Engineer who is passionate about modern cloud based solutions. You have a proven ability to comprehend functional requirements, and can translate those insights into scalable solutions. You cherish performance, security and craftsmanship. You keep close tabs on IT-developments and love to be a front-runner. You love working in an autonomous scrum team. The teams are located in The Netherlands, Greece and Germany and work together on a daily basis. Team membership is not necessarily linked to the location and transferring between teams is possible.

As a **Software Engineer** you will work in one of the three teams:

- **Firmware engineering for NET2GRID's Gateway, using Embedded C**
- Cloud and Web services, mostly backend and some frontend, using AWS, RabbitMQ, PHP, Java, Serverless.
- Analysis services, creating state of the art signal analysis software in close cooperation with our R&D team (Mostly Java and R)

Our Software Engineers ‘breathe’ IT-technology, and their programming skills are vital to the ongoing success of NET2GRID.

Must haves

- Solid programming experience in C
- Experience with programming microcontrollers (ARM Cortex, Xtensa)
- Experience with variety of embedded operating systems (freeRTOS, Linux, openWRT, Yocto)
- A university degree in Electrical Engineering or Informatics (or similar)
- Verifiable academic level of thinking and working
- At least 2 years of relevant working experience is nice, but talented young academics are welcomed!
- Hands-on software development experience
- Communicative skills are key; you spar with many stakeholders
- Fluency in English
- Having fulfilled any obligations imposed by the laws on military service

Nice to haves

- Experience with other languages is an advantage, such as R, MatLab, Python
- Having worked in Scrum/Agile environments
- Knowledge of wireless protocols (WLAN, ZigBee, BT, LoRa)
- Knowledge of metering standards (Wireless M-bus, DLMS/Cosem, DMSR)
- PCB Schematic capture and layout (preferably in Altium and/or KiCad)
- Additional programming languages (shell scripts, Java, Python)
- Hands-on soldering skills, PCB assembly/rework/repair

Why work at NET2GRID?

NET2GRID is still a relative small company that is about to take off on an exciting, fast-paced journey serving major energy providers in Europe. We anticipate accelerated growth in the next few years. The technology is recognized as state of the art by a number of large international energy service providers. You get the chance to contribute to the enthusiasm and the entrepreneurial spirit of the current team and help grow NET2GRID.

Deadline to submit a CV: Friday 27/4/2018

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