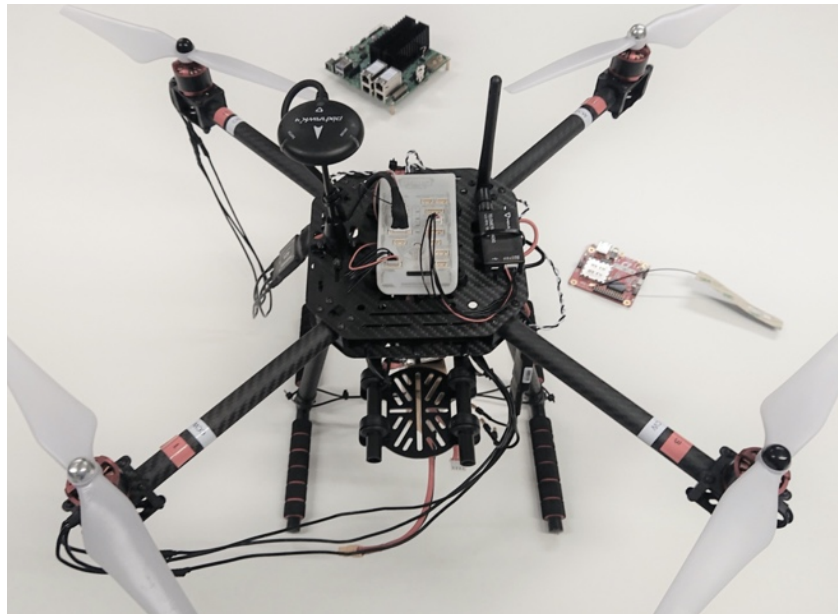# Embedded Linux developer

Developer of reliable data communication systems for drones and other vehicles

AnyWi Technologies is a company specialised in reliable and secure communication, for instance between vehicles (sea, land, air) and ground. We are looking for a developer of Linux-based data communication software to help enable safe drone flights over long distances.

To help realise the potential of drones for large-scale use, we have started developing systems for more reliable communication between drones and ground. This includes merging different access technologies (4G/5G, satellite, WiFi, etc.) into one.

The focus is at the transport level of the protocol stack (TCP/UDP) on Linux with a view to FreeBSD. Development and testing are carried out on embedded systems like the experimental drone seen here.

Job content

In this job, you will get a chance to improve communication over the TCP/IP family of protocols and get an early start on developing for the newest technologies from the 4G/5G and WiFi families, in collaboration with interesting industry and relevant partners. You will for instance:

- Build software for kernel and user space applications to manage critical data traffic.
- Improve on the UDP (and maybe TCP) environment for use on drones and other vehicles.
- Modify our own and third-party open source software to meet customer needs.
- Integrate with related systems (flight control, U-Space services, pilot interface, etc.)
- Include hardware-based security technologies in the communication software.
- Test and validate in a laboratory as well as more operational settings.
- Help write specifications and documentation of the technologies developed.
- Develop in C/C++ where needed and higher-level languages (e.g., Python) where possible.
- Work with leading R&D partners across Europe in the field of data communication and mobility.

The position is ideal for developers with a master's degree or similar in engineering or computer science. You should be interested in working independently while at the same time collaborating with colleagues within our own development group as well as with partners from companies and research institutions across Europe.

AnyWi is based in Leiden, The Netherlands, which is also the place of work.

Interested?

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