

# Senior Embedded Software Engineer (Systems) - CTBC

## Your tasks

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As a member of the Digital & Data Solutions Embedded Software team (DDS eSW) within ContiTech, you will anchor the Timișoara engineering presence and take technical co-ownership of the embedded Linux platform powering our industrial monitoring devices. Our devices run Yocto-based embedded Linux on custom hardware, communicate via MQTT to AWS IoT Core, and ship to customers in mining and conveying applications across four continents.

Your primary technical mission is the Linux platform: Yocto build system, BSP, kernel and driver integration, and OTA update pipeline. You absorb the existing platform knowledge, become a co-owner of the stack, and ensure it keeps moving when other platform engineers are unavailable.

Beyond the technical scope, you are the on-site anchor. The team lead is remote. You receive a HIL rig template and BOM from the DDS embedded team, assemble it from parts and our PCBs, commission it, and walk local plant management through sign-off. You run stand-ups, coordinate with ContiTech local facilities, and onboard engineers as the team grows. This is a founding position – you build the Timișoara structure, not step into one. The engineering team provides the starting templates; your job is to make them run on-site.

## You

- Maintain and extend the Yocto/OpenEmbedded build system; write .bb recipes; manage the SDK and layer structure
- Own the OTA update pipeline (Mender/SWUpdate) and ensure the main branch is always releasable
- Configure the Linux kernel, device tree, and driver integration for custom hardware; debug the boot chain
- Assemble the HIL rig from the DDS-supplied BOM and PCBs; commission it; walk plant management through sign-off; own the on-device regression infrastructure thereafter
- Keep the GitHub Actions CI/CD pipeline green and dependencies current
- Write Python tooling for build automation, device provisioning, test scripts, and SBOM tooling
- Receive algorithm specifications from the engineering team; implement, unit-test, and integrate them into the platform
- Run stand-ups; coordinate with ContiTech local facilities (lab, IT, HR); onboard colleagues; maintain the team cadence while the DDS lead is remote

## Your profile



Job ID  
**REF95957C**

Field of work  
**Information Technology**

Location  
**Timișoara**

Leadership level  
**Leading Self**

Job flexibility  
**Hybrid Job**

Legal Entity  
**ContiTech Thermopol Romania S.R.L.**

- Embedded Linux – has built Yocto images from scratch, written .bb recipes, debugged kernel modules, and understands the boot chain end to end
- Linux systems programming in C – device drivers, daemons, IPC, systemd services
- Python – confident scripting and tooling
- Git / GitHub Actions – branches, PRs, and CI/CD as natural working environment
- HIL and bench lab setup – has assembled and commissioned electronics from schematics and a BOM; can bring up a test rig from parts and PCBs and present it to plant management for sign-off
- Industrial communication protocols – at least one of: MODBUS, CAN, UART/SPI/I2C, MQTT
- Has organised a team, lab, or project before without a pre-existing playbook
- Desirable: OTA update mechanisms (Mender, SWUpdate, RAUC); FPGA peripheral integration via kernel driver; FreeRTOS/CortexM co-processor; AWS IoT Core; SBOM/CRA compliance tooling; automotive embedded background

## Our offer

### You are

- Are self-directed: you read documentation, dig into logs, and ask targeted questions – you do not wait to be unblocked
- Have organised people or projects such that colleagues default to you when something needs coordinating
- Can run a stand-up, keep a backlog visible, and onboard a new colleague without a prior playbook
- Communicate effectively in English with an international team (German not required)
  - Are willing to work on-site in Timișoara full time

### What we offer:

The 13-th salary - Paid once a year, in December;

Meal tickets - With a value of 40 Ron;

Private Health Insurance - Health is the most important, so we offer you a medical subscription through Signal Iduna;

Referral bonuses - We encourage colleagues to refer new candidates to us and, at the same time, to get the chance to receive a bonus;

Bookster - Feed your body and your mind. You can borrow books and you'll receive them at the office;

Sports benefits- It's important to stay active, so we offer you the 7Card;

Discounts at our partners - We collaborate with different vendors, and we receive discounts for various products/ services like rubbers, restaurants, kindergartens, etc;

System for Rewarding Improvement Ideas - We have an internal improvement program (Continental Idea Management) that gives you the opportunity to come up with ideas and to be honored with an attractive bonus (this is established by the CIM team according to your improvement idea);

Happy days - If you or your child is getting married, or you become a

parent, you receive some extra free days;

Life events celebration - If your family is growing, we praise your newborn with a bonus;

Unfortunate events - In case of unhappy events in your life, we support you by offering you free days and financial support (handled on a case by-case basis);

Extra vacation days - You begin with 22 vacation days/year, and starting with the 3rd year with us, we offer you 1 more day of vacation and. We reward employees who reach 15 and 20 years within the company with another day of vacation, reaching a maximum of 29 days.

Transport from the Timisoara area - You can choose to come with the bus provided by the company if you'll work from the plant location/office;

Professional development - Many opportunities to develop yourself within the company;

Diversity and multicultural mindset - We encourage you to join us no matter who, where, or what you are. We have colleagues from different nations and a variety of languages are spoken in our company.

Ready to drive with Continental? Take the first step and fill in the online application.

## **About us**

ContiTech Business Hub in Timișoara in a key location for ContiTech hosting various functional teams

ONE ContiTech - The first choice for material driven solutions. Contitech Industries is part of Continental Holding. Headquartered in Hannover, Germany, the division contributes to 4B+ to the revenue.

Are you interested in shaping the future of ContiTech together with a great team? Please join us and contribute to our goals with your new role as Senior Embedded Software Engineer (Systems)