DOMINIK SCHMID

Embedded Hardware Engineer

CONTACT

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ABOUT ME

„Passion sparks innovation and drives development forward – only then do products that truly succeed come to life“

I started my career as an Electronics Technician and gained extensive experience in electronics production. To further enhance my expertise, I pursued a State-Certified Technical Engineer qualification, followed by a Master Professional of Technical Management. Today, I specialize in electronics development, PCB design and manufacturing; combining technical knowledge with a deep understanding of production processes.

My passion lies in developing battery-powered electronic devices, with a strong focus on low-power circuits and audio electronics, where precision and efficiency are key.

SKILLS/TOOLS

- Altium Designer 365
- Mentor Graphics PADS
- KiCad EDA
- Autodesk Fusion 360
- LT Spice
- C Language
- Python

PROFESSIONAL EXPERIENCE

Embedded Hardware Engineer in IoT Professional Services

Product development for low power battery-based IoT device and for cellular enabled industrial gateways.

- Elaboration of system architecture and initial design of prototypes
- Involved in full product cycle from concept to production trails
- Quality assurance and production support with external service provider

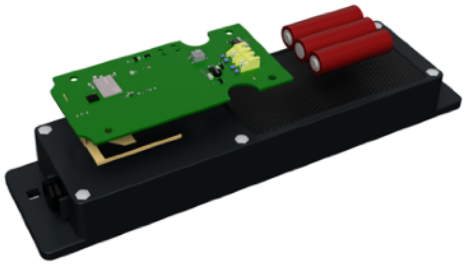
Embedded Hard- and Software Developer Smart Agriculture Products

- Hardware design of a rechargeable Bluetooth low energy RF product
- Prototyping and pre-series production based on Nordic nRF52832
- Supervision of CE and electrical safety tests

Electronic Production Area Manager

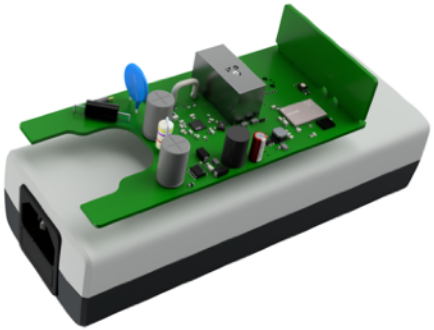
- Support in setting up a production line for electronics manufacturing
- Development and assembly of test equipment and in-circuit tests
- Transfer of new products to the production area and preparation of test instructions

PORTFOLIO



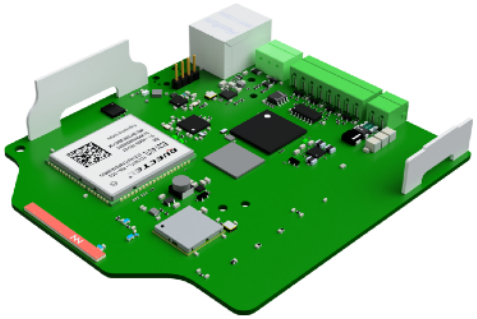
Solar Low Power Asset Tracking Device

- NiMH Battery powered system with efficient energy harvesting
- Very good performance balance
- Low power SiP with integrated LTE-M/NB-IoT modem and GNSS
- Nordic nRF9160 application core
- Ultra low power device with 8uA overall quiescent current



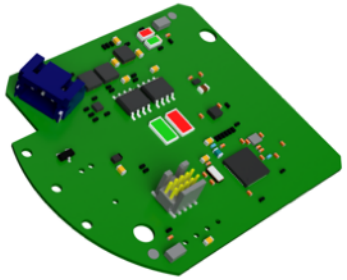
Low Cost IoT Energy Meter

- Highly accurate 230V single-phase energy metering
- Integrated load switch
- IEC Appliance Inlet C14 Connector
- Low power SiP with integrated LTE-M/NB-IoT modem and GNSS
- Nordic nRF9160 application core
- Project timeline around 3 month; from initial idea to final CE-ready product



Industrial IoT LPWAN Linux Gateway

- Multi-Radio application with 5 integrated antennas
- Integrated RF Modules: LTE, WIFI, BLE, Zigbee, Thread, wM-Bus
- Interfaces: RS485, Ethernet, digital logic input
- Core: Microchip SAMA5D2 SiP Arm Cortex-A5-based MPU
- Cost efficient 4-Layer PCB Design



Mini Bluetooth Wearable

- Animal health tracking device
- Nordic nRF52832 application core
- Cost effective 4-Layer PCB Design
- Rechargeable Li-Ion battery with self designed charging station
- Very robust design