



Sean Nyekjær

Linux developer
Embedded developer

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Summary

Low level Linux developer with experience in embedded platforms.

Languages

Danish ●●●●●●

English ●●●●●●

German ●●●●●●

Competencies

- C, Rust, Bash
- Linux kernel, U-Boot
- FreeRTOS, Zephyr
- Yocto/OE, BuildRoot
- Git, Docker
- HW design, HW review

Social Network

- LinkedIn profile
- Github profile
- GitLab profile

Projects

- 2019 – **Embedded Linux developer** Connected Cars A/S
Software bringup and Yocto BSP development on i.MX6ull platform. Integration of U-Boot and Linux Kernel.
- 2019 **Embedded Linux developer** Universal Robots A/S
Benchmarking race conditions + debug on embedded RT Linux.
- 2019 **Embedded Linux developer** EIVA A/S
Driver development for Embedded Linux storage.
- 2019 – 2020 **Embedded Linux Developer** SerEnergy A/S
Embedded RTOS development on STM32. Hardware bringup and Yocto BSP integration.
- 2018 **Embedded Linux Developer** DEIF A/S
Clock framework adjustments for Freescale LS1021A platform. Proof-of-concept development ProfiNet support using Freescale QUICC Engine.
- 2018 – 2019 **Embedded Linux Architect** Aifloo AB
Tech-lead and architect on Yocto/OE based Linux BSP for a NXP i.MX6ull platform. Integration of U-Boot and Linux Kernel.
- 2017 – 2018 **Embedded Linux Developer** Kamstrup A/S
Linux driver development and platform integration for IoT enable-utility metering systems. Using a Sitara AM335x platform.
- 2017 **Embedded Linux Developer** TRIAX A/S
U-Boot bring-up and driver development. Linux configuration and integration.
- 2017 – 2018 **Embedded Linux Architect** Universal Robots A/S
Issue resolving on an x86_64 robot controller. Generic Linux support including build setup development. Rescue boot and recovery support
- 2016 – 2018 **Embedded Linux Architect** Swapsafe Denmark A/S
Tech-lead and architect on OE based Linux BSP for a i.MX6 platform in close collaboration with HW developers.
- 2015 – 2017 **Embedded Linux Developer** Movis ApS
Tech-lead and architect on Yocto based Linux BSP for a i.MX6 platform. Bring-up and validation of multiple media and industrial interfaces including HDMI, LVDS, CAN, RS422.
- 2015 – 2016 **Embedded Linux Developer** Romo Wind
Linux driver development and platform integration on an OE based Linux BSP for a wind direction measurement device.
- 2014 – 2018 **Embedded Linux Developer** Hounö A/S
Ad-hoc Android platform support for industrial kitchen ovens. Includes bootloader and Linux kernel development, wireless network support.
- 2011 – 2014 **Embedded Linux Developer** TDC A/S
Ad-hoc platform support for TDC AlarmNET. Includes bootloader and Linux kernel development.

Work History

- 2019 – **Embedded Linux Consultant** Geanix ApS, Hadsten
Consultant on both in-house projects and on-site; includes
- Low level bring-up of Freescale, Sitara, Marvell, STM SoC's
 - U-Boot integration of DDR configuration and drivers
 - Linux BSP development using Yocto / OE
 - Low level programming + FreeRTOS in STM32
 - Hardware development and review
- 2014 – 2018 **Embedded Linux Consultant** Prevas A/S, Aarhus
Consultant on both in-house projects and on-site; includes
- Low level bring-up of Freescale, Sitara, Marvell SoC's
 - U-Boot integration of DDR configuration and drivers
 - Linux BSP development using Yocto / OE
 - Adaption of drivers for Real
 - Time Linux-Hardware development and review
- 2011 – 2014 **Embedded Linux Consultant** LIAB ApS, Støvring
Consultant on in-house projects; includes:
- U-Boot integration on Atmel AT91 and Freescale i.MX
 - Linux kernel configuration and development
 - Buildroot development for Arm and X86_64 systems
 - Realtime x264 video processing and encoding
 - 3G / LTE modem management on embedded systems
 - Test systems for ARM platforms
- 2010 – 2011 **Linux Developer** IP Thinking A/S, Vejle
Android platform development for Freescale i.MX51 including integration of U-Boot and Linux device drivers.
- 2008 – 2009 **Intern** T&O Stelectric A/S
CAN-bus monitoring of fuel cell integrated with embedded web service on an Arm microcontroller. Development of test specification and test software.

Education

- 2006 – 2010 B.Sc. Electrical Engineering Aarhus School of Engineering