



Sean Nyekjær

Low level Linux developer with experience in embedded platforms

PROJECTS

SerEnergy A/S — *Embedded Linux Developer*

February 2019 - PRESENT

Embedded RTOS development on STM32. Hardware bringup and Yocto BSP integration.

Connected Cars A/S — *Embedded Linux Developer*

January 2019 - February 2019

Software bringup and Yocto BSP development on i.MX6ull platform. Integration of U-Boot and Linux Kernel.

DEIF A/S — *Embedded Linux Developer*

June 2018 - December 2018

Clock framework adjustments for Freescale LS1021A platform. Proof-of-concept development ProfiNet support using Freescale QUICC Engine.

Aifloo AB — *Embedded Linux Architect*

May 2018 - August 2019

Tech-lead and architect on Yocto/OE based Linux BSP for a NXP i.MX6ull platform. Integration of U-Boot and Linux Kernel.

Kamstrup A/S — *Embedded Linux Developer*

November 2017 - March 2018

Linux driver development and platform integration for IoT enabled utility metering systems. Using a Sitara AM335x platform.

Triax A/S — *Embedded Linux Developer*

July 2017 - September 2017

U-Boot bring-up and driver development. Linux configuration and integration.

Universal Robots A/S — *Embedded Linux Architect*

June 2017 - September 2018

Issue resolving on an x86_64 robot controller. Generic Linux support including build setup development. Rescue boot and recovery support.

COMPETENCIES

C, Bash, U-Boot, Linux, Yocto/OE, Buildroot, FreeRTOS, Zephyr, Git, Docker, HW Design, HW Review

LANGUAGES

Danish
English

CONTACT

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Swapsafe Denmark ApS — *Embedded Linux Architect*

March 2016 - January 2018

Tech-lead and architect on OE based Linux BSP for a i.MX6 platform in close collaboration with HW developers.

Movis ApS — *Embedded Linux Developer*

November 2015 - February 2017

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.

Romo Wind — *Embedded Linux Developer*

February 2015 - April 2016

Linux driver development and platform integration on an OE based Linux BSP for a wind direction measurement device.

Houno A/S — *Embedded Linux Developer*

August 2014 - December 2018

Ad-hoc Android platform support for industrial kitchen ovens. Includes bootloader and Linux kernel development, wireless network support.

TDC A/S — *Embedded Linux Developer*

March 2011 - July 2014

Ad-hoc platform support for TDC AlarmNET. Includes bootloader and Linux kernel development.

EXPERIENCE

Geanix ApS, Aarhus — *Embedded Linux Consultant*

January 2019 - PRESENT

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
- Adaption of drivers for Real-Time Linux
- Hardware development and review

Prevas A/S, Aarhus — *Embedded Linux Consultant*

August 2014 - December 2018

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

LIAB ApS, Støvring — *Embedded Linux Consultant*

March 2011 - July 2014

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

IP Thinking A/S, Vejle — *Linux Developer*

June 2010 - February 2011

Android platform development for Freescale i.MX51 including integration of U-Boot and Linux device drivers.

T&O Stelectric A/S, Randers — *Intern*

August 2008 - January 2009

CAN-bus monitoring of fuel cell integrated with embedded web service on an Arm microcontroller. Development of test specification and test software.

EDUCATION

Aarhus School of Engineering — *BSc. Electrical Engineering*

August 2006 - January 2010