

Mesih Veysi Kılınç

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Turkish Nationality - Male - Married - Age 26

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OPEN SOURCE CONTRIBUTIONS

- **Linux Kernel Contributions - Patchsets:**
 - **Applied:** initial support for "suniv" Allwinner new ARM9 SoC
 - Add support for DMA and audio codec of F1C100s
 - Timer & SPI support for Allwinner suniv F1C100s

TECHNICAL SKILLS SUMMARY

Programming Tools & Languages

C/C++	5 Year
QT	3 Year
GStreamer	2 Year
Bash	3 Year

Operating Systems & Software

Linux & GNU Utils	3 Year
Linux Kernel	2 Year
Yocto	2 Year
Kicad	1 Year

EDUCATION

- **Gebze Technical University** Kocaeli, Turkey
Master of Science in Computer Science; GPA: NA Feb. 2018 – Present
 - **Scientific preparation:** Successfully finished 5 course under scientific preparation to Computer Science which is: *Object Oriented Programming, Data Structures, Operating Systems, Computer Organization, Discrete Mathematics*
- **Istanbul Technical University** Istanbul, Turkey
Bachelor of Engineering in Electronics and Communication; GPA: 2.71/4.00 Sep. 2011 – Feb. 2016

EXPERIENCE

- **Gebze Technical University** Kocaeli, Turkey
Research Assistant Feb 2018 - Present
 - **IEEE 802.11p Research:** Researched literature about vehicle to vehicle and vehicle to infrastructure communication, targeting IEEE 802.11p.
 - **Swarm Unmanned Aerial Vehicle:** Designed hardware and developed software for a UAV telemetry modem. Designed hardware and developed software for an RSSI Sensor which can measure strength of RF signals in specified band.
- **Otokar** Sakarya, Turkey
Software Engineer August 2016 - Feb 2018
 - **Border Surveillance and Reconnaissance Vehicle:**
 - * Developed GUI for border reconnaissance & surveillance armored vehicle (C++, Qt, Yocto)
 - * Developed radar management software. (C++, Hierarchical State Machines)
- **CTech** Istanbul, Turkey
Hardware Engineer July 2015 - August 2016
 - **UAV Modem:**
 - * Design and code software for UAV Modem (C++ Embedded Linux)
 - * Design and code device drivers under linux for FPGA blocks (Xilinx Zynq)
 - * Developed MCU based control hardware and software for an RF front-end hardware.
 - * Took Linux training from Nazim Koc (uCanLinux.com). Gained knowledge on u-boot, linux kernel, busybox compilation and building rootfs.

MAJOR PROJECTS

- **Real-time Video Compression Device:** Coded software for a H264 video compression device. It is based on IMX6 SoC and also uses real-time patched Linux and GStreamer. Build the required device tree and userspace software that is based on GStreamer and also works with a custom transmission medium via a packetizer.
- **Voice Transceiver Device:** A device capable of recording and sending voice at ISM band. It is an embedded Linux system that utilizes Opus codec and Alsa. Designed and produced the hardware and coded necessary **ALSA SoC driver, SoC's DMA Driver, RFIC device driver** and user space software. Build the device tree and RootFS.
- **Cansat Competition, Abilene TX:** Designed hardware and coded software according to requirements of the competition. It uses Cortex-M based MCU.
- **Turksat 3USAT Cube Satellite, ITU:** Coded software for on-board computer of the satellite.