

# SERTAÇ TÜLLÜK

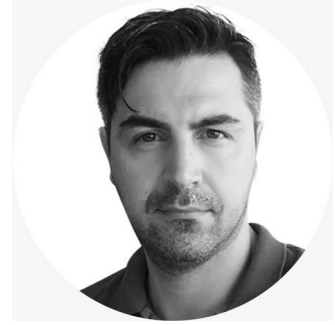
## EXPERIENCED SOFTWARE DEVELOPER

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### CAREER PROFILE

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- Linux / Android based consumer / industrial product designer – product manager.
- Senior level C / C++ / Shell Script developer
- Active Linux user / developer / Community Contributor since 1998
- Product / Business experience:
  - Industrial and Consumer level HMI Devices
  - Home Automation systems, Smart Home TouchPanels
  - Digital Satellite Receivers & DVB Systems
  - Headless embedded linux devices ( SoM, CoM, Carrier boards..etc)
  - 10+ years experience on Allwinner / RockChip / Amlogic / IMX / Intel platforms
  - 15+ years experience on SBCs ( Single Board Computers ) on development & debugging & testing
  - Loves to work on Linux and write documentation

### EXPERIENCE

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#### SIEMENS AG / Istanbul – Hybrid / Since March 2022

##### Senior Software Architect

- Responsible for OS architecture of **Simatic HMI Industrial Touchpanels** (Intel & IMX8 SoC)

#### CANONICAL / Istanbul - Remote / March 2021 - March 2022

##### Developer + Engineering Manager

- **Ubuntu Core** ( nextgen secure embedded linux OS) team manager
- Forming (Hiring + Leading) a world class development team
- Working on boot time optimization, installers, documentation, bugfixes

#### SIEMENS AG / Istanbul – Hybrid / April 2018 - March 2021

##### Developer + Senior Software Architect

- Responsible for OS development of **Simatic HMI Industrial Touchpanels** (Intel & IMX8 SoC)
- Developed linux system services (C++/Protobuf/WAMP) for:
  - built-in and removable storage devices ( eMMC / SDcard / USB...etc)
  - serial Devices ( RS485 / RS422 )
  - systeminfo (uptime/loadavg/health status)
  - network services (dcp / lldp / snmp)
- Maintained Mentor Embedded Linux OS for Simatic HMI touchpanels.
- Worked on OS optimization for boot speed, disk space usage, robustness

#### INTERRA / Istanbul / July 2013 – April 2018

##### Developer + Engineering Manager + Product Manager

- Lead a team of 14 developers (HW/linux/Android/iOS) for 5 years.
- Developed Smart Home / Building TouchPanels running Android OS (Allwinner SoC):
  - **Home Automation Touchpanels (Android/Linux)**
  - **Hotel / Building Automation Touchpanels**
- Developed Smart Home / Building Headless embedded products running Debian Linux OS:
  - **SIP Server**
  - **Concierge Server**
- Developed ARM Android based PCBA used in smart home systems . Worked as a developer for board bring-up, system services and architecture for all above products.
- Written GPIO libraries, Temperature, Ambient Light, Proximity Sensor library and applications ( C lang)

- Developed a remote management system that can control & monitor the products after sales ( Fleet management solution)
- Developed an OTA Update solution for all above products

### **HIREMCO / Istanbul / May 2006 – July 2013**

#### **Developer + R&D Manager + Product Manager**

- Lead a team of 19 developers (Mechanics/Electronics/OS/Userspace) for 7 years.
- Development of Turkey's 1st HD Linux DVBS2 Satellite Receiver / SetTopBox
  - **CHIPBOX**
- Development of Turkey's 1st OTA Upgrade system over Turksat Satellite
  - **Hiremco OTA**
- Development of world's first DVB STB with an onboard speaker
  - **Hiremco F1**
- Developed more than 30 different DVB STB models during 7 years.

### **ORIENT ELECTRONICS / Gaziantep / Jan 2004 – April 2005**

#### **Development Team Lead**

- Lead a team of 5 developers for 1 year
- Developed VCD/DVD players with Mediatek SoCs with Turkish OSD

### **EDUCATION & TRAINING**

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#### **1997 – 2003 : Gaziantep University**

Electrical / Electronics Engineering – GPA: 3.48

### **LANGUAGES**

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**Turkish:** Native **English:** C2 **German:** A1

### **DEV SKILLS**

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- Embedded Linux / Android Board Enablement / Board Bringup
- Advanced level: C/C++/ShellScripts/Markdown
- Beginner level: goLang
- uefi, uboot, grub, kernel, initrd/initramfs, systemd, containers, ci/cd, testing
- Open source software development (see [github/gitlab](#) repos)
- Some open source contributions:
  - <https://linux-sunxi.org/Special:Contributions/Stulluk>

### **CERTIFICATES**

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[Advanced C LANGUAGE](#) – CSYSTEM ([www.csystem.org](http://www.csystem.org))

[Advanced C++ LANGUAGE](#) – CSYSTEM ([www.csystem.org](http://www.csystem.org))

[CPSA-F](#) – ISAQB ([www.isaqb.org](http://www.isaqb.org))

### **KEYWORDS**

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C++, C, BASH, LINUX, android, board bring-up, board enablement, os porting, os optimization, gcc, clang, llvm, compiler, linker, assembler, gdb, stb, hmi, automation, debug, debugging, test, testing, embedded, arm, x86, debian, ubuntu, server, uboot, u-boot, grub, linux kernel, initramfs, initrd, busybox, git, architecture, documentation, emmc, agile, scrum, development, x11, wayland, systemd, secureboot, i2c, spi, uart, ebpf, knx, automation, smart home, terminal, bash, script, documentation, container, docker, docker, lxd, touchpanel, dvb, UX, project management, product management, r&d manager, product manager...