MEHMET DOĞAN

PERSONAL

BIRTH: Oct. 16, 1996

ADDRESS: Cankaya, ANKARA, TURKEY – 06490

STATUS: Single

MILITARY: Completed

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EDUCATION

Istanbul Technical University

Ongoing | Master of Science in TELECOMMUNICATION ENGINEERING (CGPA: 3.40/4.00)
Master Thesis: Wearable Antenna Design for UHF Band

2019 | Bachelor of Science in ELECTRONICS AND COMMUNICATION ENGINEERING (CGPA: 3.10/4.00)
Graduation Project: Implementation of Visual Cryptography on the System on Chip by using Vivado design tool

Istanbul Bahcelievler Anatolian High School

2014 | Science and Math curriculum taught in German and Turkish

RESEARCH AND JOB EXPERIENCE

2024 Feb. – *Present* | **Pharus Tech**
Founder & General Manager & Design Engineer
- System design of Cospas-Sarsat ELT, EPIRB and PLB equipments
- Real-time embedded software development for ELT, EPIRB and PLB
- Safety critical software design, requirement management and documentation for ELT through DO-178C process
- Research & Development projects lead

2021 Sept. – 2024 Feb. | **ASELSAN**
Expert Embedded Software Engineer
- Real-time embedded software development for Electronic Warfare Systems on VxWorks
- Implementation of Radar and Electronic Warfare RF System Algorithms and code generation by UML-based tools

2020 Nov. – 2021 July | **Meteksan Defence**
Embedded Software Engineer
- Embedded software development for acoustic guidance system
- Implementation of system's test / verification Graphical User Interface
- Implementation and unit-test / verification of target tracking algorithms

2019 Sep. – 2020 Nov. | **Turkish Aerospace Industry**
System Design Engineer
- System development and tests of voting-based fault tolerant Sensor Selection Algorithm for Flight Control Computer equipment
- Embedded software design and tests of Emulator devices for Helicopter Flight Simulator

SOFTWARE SKILLS

ADVANCED: C, C++, MATLAB

INTERMEDIATE: Python, Java

SOFTWARE EXPERIENCE

ADVANCED: Eclipse IDE, Microchip Studio, IBM Rhapsody, Xilinx Vivado & SDK, NetBeans, MATLAB & Simulink, IBM Rational Doors, JIRA, TortoiseSVN, Git, MS Office tools

INTERMEDIATE: VxWorks, Linux, Wind River,

HARDWARE EXPERIENCE

ADVANCED: Xilinx Zynq-7000 ARM/FPGA, ARM Cortex-M0+ SAM DA1, Xilinx Artix-7 FPGA, IBM PowerPC CPU

INTERMEDIATE: STM32, TI MSP430

LANGUAGES

TURKISH: Native

ENGLISH: Fluent

GERMAN: Intermediate

PUBLICATIONS

Contributions about Electronics Engineering perspective for the newly invented polymer material, software development for the parse of experimental data and visualization:

• Dogan, Turkan & Bel, Tayfun & Dogan, Mehmet & Köken, Nesrin & Kizilcan, Nilgün & (Dogan) Baydogan, Nilgun. (2023). "High temperature performance adhesive derived from randomly segmented poly (imide siloxane) copolymer". Materials Science and Engineering: B. 287. 116160. 10.1016/j.mseb.2022.116160.

TRAININGS AND SEMINARS

SOLID Principles Training • VxWorks Seminar • Avionics Seminar • Code Generation via MATLAB Code Generation Tool Seminar • Airworthiness and Certification Seminar • System Safety Engineering • Requirements Engineering • DO-254 Design Assurance Guidance for Airborne Electronic Systems Seminar • DO-178B: Software Considerations in Airborne Systems and Equipment Certification Seminar • ARP4754: Guidelines for Development of Civil Aircraft and Systems Seminar • Introduction to Linux Environment and Basic Applications Training