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ADHAM FARIS

Embedded Software Engineer

SUMMARY

2.5+ years of experience in Software and Embedded Software design and development, with higher focus on low-level algorithms and performance ones. Passionate engineer, with high motivation to learn and widen my skills daily. Quick and self learner, problem solver, self and result driven. Strong debugging and analytical thinking skills. Good Python skills with experience in writing automated python tests and tools. Working knowledge of agile methodology. Successful working in both team and self-directed settings.

TECHNICAL SKILLS

- **Languages:** C, C++, x86 asm, Python, C# (little experience), MATLAB & Simulink (Prior experience), Bash, Batch
- **Frameworks/Libraries:** unittest, pytest, doctest, tkinter, C++ Boost, C# WinForms
- **OS:** Windows, Linux
- **Tools:** Visual Studio, VS Code, Eclipse, Source Insight, PyCharm, Wing, Git, Makefile, SCons, UML, Vim
- **Database:** MySQL

CERTIFICATIONS

- In progress **Linux Professional Institute**, Linux Essentials

VOLUNTEER EXPERIENCE

- [Active member](#) in **StackOverflow** contributors community
- Trained and prepared students from **AMAL High School Ramla**, for bagrut exams in math and physics during my duty
- Trained and mentored students from **Hurfeish High School**, for bagrut exams in math and physics during my studies

PROFESSIONAL EXPERIENCE

Embedded Firmware Engineer

Aug '18 - Present

Western Digital

Migdal Tefen, IL

SanDisk is a brand of Western Digital for flash memory products, including memory cards and readers, USB flash drives, and solid-state drives.

Dynamic Flash Life Test FW Application

Re designed and implemented (in C language) FW application for testing the flash memory reliability and durability, FW data path and FW mangement API's and flows

- **Reducing** the life test duration from **1 month to 11 days**. This lead to better Qual coverage and **doubled** the number of tested products
- **Increasing** the discovered amount of bugs **by 100%** compared to the previous application

FW Build ToolChain App

Maintained and implemented new features (in Python) for the FW build app. **boosting** the build performance by decreasing the FW build time **from 9 minutes to 4 minutes**

RAM Memory Consumption & Fragmentation App

Designed and implemented (In Python) from scratch, **multi process app** for analyzing and reporting the FW memory (code & data) consumption and fragmentation

R&D Engineering Roles

Sep '10 - Oct '17

Israel Defense Forces

Israel

R&D Engineer, Israel Ministry of Defense

Dec '16 - Oct '17

- Formulated technical requirements specification, for gunner sight system

Flight Test Engineer, IAF-Flight Test Center

Sep '14 - Dec '16

- Planned and performed tests in all IAF's platforms and airborne systems with focus on communication, command and control, navigation systems

Signal Processing & Test Engineer, IDF

Sep '10 - Sep '14

- **Developed** data processing tools (e.g. **FIR** and **IIR** filters design with **fdatool**) in **MATLAB** and **Simulink** for tests **data analysis**

CODING BOOTCAMPS

Advanced Software Developer - Intern

Jan '18 - Aug '18

Experis Software

Tel Aviv-Yafo, IL

Experis Software is a leader in up-skilling for technological training programs and bootcamps in areas such as software development, cyber security and more.

Graduated of **CORE Coding Bootcamp** program. **8 months (1450+ hours)** of intensive handson **Software** training, covering the **core subjects** from CS (O.S, DSA, Computer Archticture and more). Highlights:

- Linux from scratch: **Linux system programing** (Memory and process mangement, **IPC** mechanisms, **Multi-Threading** and synchronaization), user environment, shell programming, development environment and tools
 - **OOD & Programing:** SOLID, Design Patterns, UML, state machine
 - Advanced **C** and **C++** programming, generic C programming, C++ Internals, Advanced **C++ Template programing, STL, Boost**
 - **Networking programing: TCP/IP, UDP**, Application protocols, network debugging
- Designed and developed 3 advanced projects (5k+ lines of code each)** in C and C++

EDUCATION

ORT Braude College of Engineering

Oct '05 - Oct '09

B.Sc. Electrical Engineering

Karmiel, IL

Technion - Israel Institute of Technology

Sep '04 - Sep '05

Pre-Academic Preparation Studies

Haifa, IL