ADHAM FARIS
Embedded SW Engineer

- 📞 058-5095050
- ✉️ Fares.Adham@gmail.com
- 📍 Hurfeish, IL
- in https://www.linkedin.com/in/adham-faris-a1140a15

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, self driven problem solver, result driven. Strong debugging and analytical thinking skills. Good Python skills and experience in writing automated python tests. Working knowledge of agile methodology.
Successful working in both team and self-directed settings.

TECHNICAL SKILLS

- **Languages**: C, C++, x86 asm, Python, C#, MATLAB, 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

- Member in **StackOverflow** contributors community. click to visit my account
- Trained and prepared students from **AMAL High School Ramla**, for bagrut exams in Math and Physics during my duty.
- Atidim Math Trainer: Trained students from **Hurfeish High School**, for bagrut exams in Math and Physics during my studies.

PROFESSIONAL EXPERIENCE

Embedded FW 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 relability and coherence.

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

FW Build ToolChain
Maintained and implemented new features (in **Python**) for performance (decreasing the FW build time from 9 minutes to 4 minutes) and expanfing the system features)

RAM Memory Consumption Tool
Designed and implemented multi-process memory (Code, static/dynamic data) consumption tool in **Python**

Software Developer - Intern
Jan '18 - Aug '18

Experis Software
Israel

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 Bootcamp** program. CORE program consists of **1450+ hours** of handson **SW** training, covering the core subjects from CS, e.g. OS, DSA, Computer Archticture, OOD and more. (click to see more details on the CORE program).
Covered all the courses and topics (and more) listed below:

- 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 programing, C++ Internals, Advanced **C++ Template programing**, **STL**, **Boost**
- **Networking programing**: **TCP/IP**, **UDP**, Application protocols, network debugging

Designed and developed 3 advanved projects (5k lines of code each) in C and C++

R&D Engineering Roles
Sep '10 - Oct '17

Israel Defense Forces
Israel

R&D Engineer, Israel Ministry of Defense   Dec '16 - Oct '17
- Wrote technical and military 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

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**

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