

17/08/2024

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Experience

Mov.ai- Robotics engine:

2021-now

Backend team leader: Develop the **core** components of the platform, including the backend web server, services, **orchestration** system, **communication** systems, **security** features, **logging**, **DBs**, **HW**, and **ROS** interfaces and our SDK/ API. Also contribute and manage our open source - [Movai-flow](#), [Flow-init](#), [DAL](#), [shared](#), [backend](#), [node](#). Written (and optimize performance) in **python**, to run robotics and perception **algorithms** with best performance.

NeuroBlade LTD:

2019-2021

Simulator Engineer: Develop simulator based **QEmu open source in C**, simulated new system and all of its components (DMA, Mem, Network) worked with new linux driver and FW on the modulated chip and linux app that run on simulator.

AI Compiler Engineer: Develop compiler and tools (based on **ONNX** format) for a new accelerate **deep neural networks** chip, in addition to HW validation. Worked with python AI libs (mainly **T.F** and **PyTorch**), and **OnnxRunTime** open source.

Giraffic LTD: **Senior SW ENG**

2018-2019

Helped to develop the product for accelerating video streaming Android Apps (**C++** core SW, and **Java** for the SDK), In addition, developed Automation testing system (In **Python** with **Jenkins**).

Mellanox LTD:

2014 – 2018

Development tools and compilers for internal and outer use: Joined tools team, worked in ongoing projects like: FW 64-bit **LLVM** Compiler and simulator, HW and FW VM **QEMU** Simulator; and other wanted tools mainly in Python (worked with **C++**, **Django**, **ScaPy** and other **Python** libs).

Development infrastructure in Microsoft new Switch OS in Seattle : Sent from Mellanox to Microsoft in Seattle for development new open source OS for Open Networking in the Cloud (AKA SONiC), and platform that connect different HW devices as Switch Abstraction Interface (AKA SAI).

Firmware verification and Hardware validation Engineer: Developing test environment in **C++** under **Linux** with a reference model that includes the **FW** and **HW**, complicated management model for code coverage and function coverage, and a traffic generator and traffic checker for all the different **Eth**, **TCP**, **IP** and **InfiniBand** protocols.

Biosense medical Ltd: **System Engineer**

2013 – 2014

Planned the architecture that includes the mechanical, electronic and software aspects, and programmed all the product software in **C#** on the **.NET** environment.

Ben Gurion University: **Programmer**

2012 – 2013

Worked in the DARPA CHALLENGE, in the Israel team.

Programmed in **C++** with **ROS** (Robot Operating System) in **Linux**, for **computer vision** tasks.

Education

Tel Aviv University M.Sc in Electrical engineering

Graduating in 2024

Ben Gurion University B.Sc in Electrical and computer engineering

Graduated in 2014

Ort Hermelin College Practical Engineer in Mechanical Engineer

Graduated in 2006

Aviv High school Control system and robotics studies

Graduated in 2004

• Won the second place in the world contest of firefighting robots competition

Army service

Israel Air Force UAV technician, team leader in the system department, top secret security clearance 2006 – 2009

C

C++

C#

Java

Python

Bash

JS

Redis

SQL

InfluxDB

Ros

Docker

QEmu

Comms

Compiler

Simulation

Drivers

Linux

AI

Vision

Arch

Optimization

FW

BE server

Security

Tech leader

Team leader

Sys designer

Deep debug

Autodidact

Problem

solver

Vim wizard

Git master

Tech

enthusiast

Just

the

guy

that

make

it

works!

