Verification & Validation \ DSP \ Python \ Matlab \ Real-Time Embedded - C

**Alon moshe**

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**Summary**

* Looking for **Hardware** Positions: **Verification, Validation, DSP, Python, Matalb, Real Time Embedded, C**
* **3 years experience** teaching **Java, C, Electrical Circuits.**
* **Experience** developing **2 Hardware Projects** with **Matlab, Arduino.**
* 4TH year **B.Sc.** Electrical and Electronics Engineering student - **91 GPA**
* Available **immediately for 80%-100%** position .
* Team player, autodidact, high interpersonal skills, excel under pressure, technical and analytical abilities and I have a great passion for the electrical and electronics engineering world.

**Experience**

2018 - Present **Private Teacher - Electrical Circuits**

* Conducting private lessons for students for the final test.The topics are:server amplifiers, transistors (NPN), feedbacks,Miller sentence,calculate amplification,connect resistors.

2015 - Present **Private Teacher - Java, C**

* Conducting private lessons for children for the preparation of the matriculation exam (4-5 units).
* Conducting private lessons for students for the preparation of the final tests.

Professions: Math, Physics,Probability.

**Education**

2021 **Python Course,** Udemy - “The **Python** Mega Course: Build 10 Real World Applications”.

2018 - Present **B.Sc. Electrical and Electronics Engineering,** **HIT - GPA - 91**

Balance of studies: 3 semesters.

2009 - 2012 **Full matriculation,** Mota Gur Municipal High School.

Majored in **Computer Science** - 5 units (**Java**), Math - 5 Units, **Physics** - 5 units and

Biology - 5 units.

**Projects**

2021 **Signal Analysis - Machine learning**–Identify films from 7T fMRI scans using linear classifiers.

* Writing software in **MATLAB.**
* Received data from brains of 181 subjects, divided into 12 networks.Classify which film saw each subject by each network and network.
* Classifiers that are used in the project:**KNN,SVM,LDA,QDA**.

2020 **Arduino project-Clock**

* Writing software in **C.**
* connect to the arduino board lcd screen and make a code for a clock.

2021 **Bioart Hackathon** – Participated in the weekly hackathon and created a final product.

* Final product:Measuring metrics of people in space inside a spacecraft, both of environment and of people. We were divided into groups. Each group had a student in a different field(6 people total in each group).I was in charge of the electrical circuit for the device.
* Weekly Hackathon with engineers from all fields who gave lectures.
* Experience working with 3D Printing (Agisoft Metashape ,Blender)

**Relevant Courses**

∙ Linear Electronics Circuits (Server amplifiers, transistors, feedbacks) – 95.

∙ Digital Signal Processing – 92.

∙ Machine Learning Methods for Signal Analysis – 97.

∙ Software Tool Lab (Python, MATLAB) – 91.

**Professional knowledge**

Programming languages: Python, C, MATLAB.

Development environment's: Visual Studio, jupyter notebook,Collab.

Additional skills: Microsoft Office (Word, Excel, PP).

**Volunteer Work**

2019 **Scholar** of the “IMPACT” Foundation.

Tutoring children in mathematics, physics, and programming languages(**c**,java)**.**

**Military Service**

∙ 2012 - 2015 Full-Service - **Warrior** in the "Givati" Brigade.

Released at the rank of first sergeant. **Battalion Outstanding Line grab in Hebron.**

**Languages**

Hebrew – Mother tongue, English – Fluent, Portuguese – Basic, Spanish – Basic.

**Recommendation**

Recommendations will be provided upon request.