Mohamad Alhaddad

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EDUCATION

- **Middle East Technical University** — KKTC, Turkey
  Master of Science in Sustainable Environment and Energy Systems(With Thesis); CGPA: 3.75/4.00 — Oct. 2017 – Present

- **Eastern Mediterranean University** — KKTC, Turkey
  Bachelor of Science in Mechatronics Engineering (With Thesis); CGPA: 3.76/4.00 — Mar. 2014 – June. 2017

EXPERIENCE

- **Middle East Technical University** — KKTC, Turkey
  Graduate Teaching Assistant — Oct 2017 - Present
  - **Microprocessors**: EEE 347; Participate in the assessment process, using a variety of methods and techniques and provide effective, timely, and appropriate feedback to students to support their learning
  - **Analog Electronics**: EEE 311; Supervise practical work, advising on skills, methods, and techniques to assist the transfer of knowledge
  - **Introduction to C programming**: CNG 230; Supervise labs practical work, provide techniques to assist the knowledge building process
  - **Introduction to circuits**: EEE 201; Assessment process participation, supervise labs practical work

- **Gurdag industries** — KKTC, Turkey
  Internship — Aug. 2016 - Oct. 2016

PROJECTS

- **SolveIT scientific calculator**: Android application to provide easy to use scientific calculator
  $https://play.google.com/store/apps/details?id = advanced.calculator.solveit$
- **cexamplz**: Django based web app to provide examples for C programming language $http://www.cexamplz.com/$
- **Django based URL shortening service**: Opensource django based shortening service. Source code:
  $https://github.com/Mohamad1994HD/urlkbs.git$
- **Django based blog**: Opensource django based blog website $www.foodblog.faith$ Source code
  $https://github.com/Mohamad1994HD/flog.git$
- **Smart Object classification Machine, Spring 2017**: (BS Thesis) Machine vision implementation to distinguish between learned objects of several types.
- **Cylindrical ASRS**: Automated storage/retrieval system prototype
- **GSM based home automation system**: proof of concept to control electrical devices via sms messags.
- **LinkArcheiver**: Opensource desktop environment link archeive tool built with python
  $https://github.com/Mohamad1994HD/LinkArchiever.$
- **Fastmail tool**: Opensource tool to send emails from cli $https://github.com/Mohamad1994HD/fastmail.git$
- **28BYJ48 driver**: Opensource C++ library to drive 28BYJ48 motor
  $https://github.com/Mohamad1994HD/28BYJ48.git$
- **5-Axis robotic arm interface**: Python interface to control 5-Axis robotic arm
  $http://www.instructables.com/id/Robotic - Arm - Controll - Automation/$
- **Voice controlled autonmous robot**:
  $http://www.instructables.com/id/Arduino - Robot - Controll - Via - Voice - Commands/$
- **Smart pet house**: Automated-house system, oriented to serve pets. Configured through Android app. Save temperature, Distribute food/water at several in-app configured pattern
  $http://www.instructables.com/id/Automated - Dog - House/$

PROGRAMMING SKILLS

- **Languages**: Python, C++, Javascript, Lua, Assembly, SQL, Java

- **Technologies**: Bootstrap, Jquery, Django, Flask, Pandas, OpenCV, Sklearn, Angular, Unity, Kivy, Qt, eel

- **Utilities**: v-rep (Robotic Simulator) , SolidWorks, Autocad, Thingspeak, Xively, , Unity, Visual Studio

- **Environments**: Linux-Ubuntu, Linux-Raspbian, Windows

- **Prototyping**: Arduino, RaspberryPI, Atmel-AVR

OTHER SKILLS

- **Communication skills**: Turkish, English, Arabic

- **Project Management**: Quality Function Deployment(QFD), Work Breakdown Structure(WBS), Failure Mode Effect Analysis(FMEA)