

# Marwa AlAlawi

+973 39971317  
malalawi@alum.mit.edu

## EDUCATION

### Massachusetts Institute of Technology, Cambridge, MA

JUNE 2020

- Bachelor's in Mechanical Engineering, GPA (4.8/5.0)
- Coursework includes: Toy Product Design, Mechanics and Materials, Design and Manufacturing, Measurement and Instrumentation, Fluid Mechanics, MIT Media Lab: "How to Make Almost Anything", Advanced Japanese Studies at Harvard University, Design for the Web, Circuits and Electronics, Coding with Python.

## RELEVANT EXPERIENCE

### GREE JAPAN, Tokyo, Japan — XR Department Intern

JUNE - AUGUST 2018

- Developed an educational virtual reality game for Japan's National Space Agency (JAXA) and GREE's "Arienai" Kids Workshop using Unity and HTC VIVE.
- Voice-acted narrative for game support character, "Maru-Chan" in Japanese.
- Presented talk about select MIT Media Lab technologies to coworkers and department manager in Japanese.

### MIT Device Realization Lab, Cambridge, MA — Undergraduate Researcher

SEPTEMBER 2019- MAY 2020

- Developed a virtual reality environment at MIT Nano using Unity for use on HTC VIVE with Equivital Sensor for human physiological response measurements as indicators of VR User Presence.
- Presented talk on research, titled "Sensing Presence in VR" as part of the MIT Nano Sense Talks ([HTTPS://YOUTU.BE/JcVM4PV2FE](https://youtu.be/JcVM4PV2FE))

### MIT Media Lab's Personal Robots Group, Cambridge, MA — Undergraduate Researcher

FEBRUARY 2019 - AUGUST 2019

- Developed an android app with Jibo the robot for robot-child communication using Android Studio and Kotlin.
- Aided with data filtering and refinement using Python for study on child-robot interaction.
- Co-led robotics workshop for 3 days at Arthur Healey School (Somerville, MA) for K1-K4 students.

### MIT Global Teaching Labs, Amman, Jordan — Team Leader & Instructor

JANUARY- FEBRUARY 2020

- Led and managed a group of four MIT undergraduate students to teach 120 students at the Jubilee School and Amman Academy in Jordan for one month.
- Developed one month-long curricula for Jordanian Students. Topics taught include coding w/ python, Unity Game Development, Computer Aided Design and Arduino.
- Connected with and invited MIT Arab alums as guest speakers at Jubilee School and Amman Academy

### MIT Toy Product Design (2.00b), Cambridge, MA — Undergraduate Teaching Assistant

FEBRUARY - MAY 2020

- Closely mentored a team of six MIT undergraduate students on Toy Design ideation and fabrication.
- Assisted 30+ undergraduate students with running shop machines and electronics.

### MIT Physics (8.01): MECHANICS I, Cambridge, MA — Undergraduate Teaching Assistant

SEPTEMBER - DECEMBER 2017

- Directed and assisted more than 27 students with physics concepts by supervising in-class problem solving.
- Graded more than 27 student problem sets on weekly basis.

## ADDITIONAL EXPERIENCE

### MIT Annual Fund, Cambridge, MA — Tech Caller

FEBRUARY - MAY 2017

- Raised over \$3,000 by professionally soliciting alumni gifts to the MIT Annual Fund.

## PRODUCTS

### KanKan, Cambridge, MA

DECEMBER 2018

- Physical Kanji (Japanese-Chinese characters) to Kana (Japanese native characters) converter for printed Japanese text ([HTTPS://TINYURL.COM/FABRICATIONMARWA](https://tinyurl.com/fabricationmarwa)).

## WEBSITE

[MALALAWI.GITHUB.IO/MARWAALALAWI](https://MALALAWI.GITHUB.IO/MARWAALALAWI)

## SKILLS

Engineering Maker Skills: Laser cutting, 3D printing, Hand tools, Drill press, Band saw, CNC, PCB Design with Mill, Mold Making, Vinyl Cutting.

Engineering Software:  
MATLAB, KiCAD for PCB Design.

Computer Languages:  
Python, HTML, CSS, C# (Unity), C++ (Arduino), Kotlin (Android Studio).

Art and Design: Adobe Premiere Pro, Illustrator, Photoshop, Solidworks, Fusion 360, Clip Studio Paint, Manga Studio.

Game Development:  
Unity (2D, 3D, VR), RPG Maker

## LANGUAGES

Arabic: Native Fluent

English: Bilingual Fluent

Japanese: ~JLPT N2

## AWARDS

Crown Prince International Scholarship: Fully funded BSc to PhD scholarship awarded annually to the ten most academically outstanding Bahraini students.

## ACTIVITIES &

### LEADERSHIP

MIT Makerlodge and Makerworkshop: Mentor at MIT makerspaces.

MIT Animation Group:  
Marketing director and treasurer.

Guest Speaker:  
MIT Japan Student Ambassador, MIT Nano Seminar Series presenter, University of Bahrain CPISP PEP Talks speaker, MIT guest speaker at various Bahraini private schools .

CMI (Chartered Management Institute):  
Level 3 Certificate

Toastmasters Int. Speaker