

Marwa AlAlawi - CV

M.Sc. Candidate

MIT Mechanical Engineering Department

MIT Computer Science and Artificial Intelligence Lab

32 Vassar Street, Cambridge, MA 02139 USA, Room 32-211

malalawi@mit.edu, malalawi.info

Education

Massachusetts Institute of Technology, Cambridge, MA

2021 - Present

M.Sc. in Mechanical Engineering

MIT Mechanical Engineering Department

MIT Computer Science and Artificial Intelligence Lab

Advisor: Professor Stefanie Mueller

Massachusetts Institute of Technology, Cambridge, MA

2016 - 2020

B.Sc. in Mechanical Engineering

MIT Mechanical Engineering Department

Additional Coursework in EECS

Advisor: Dr. Brian Anthony

Publications

- [3] **M. AlAlawi**, N. Pacik-Nelson, J. Zhu, B. Greenspan, A. Doan, B. Wong, B., Owen-Block, S. Mickens, W. Schoeman, M. Wessely, A. Danielescu, Stefanie Mueller. "MechSense: A Design and Fabrication Pipeline for Integrating Rotary Encoders into 3D Printed Mechanisms," In Proceedings of CHI 2023.
- [2] **M. AlAlawi** & B. Wong "LeviCircuits: Adhoc Electrical Circuit Prototyping using Ultrasound Levitation," UIST '22 Adjunct, SIC, October 2022
- [1] **M. AlAlawi** , "Design of a Virtual Environment for Physiological and Subjective Monitoring of User Presence in VR," B.Sc. thesis, Massachusetts Institute of Technology, May 2020

Research Internships

Device Realization Group , MIT Mechanical Engineering 2019-2020

Undergraduate Research Assistant

Advisor: Dr. Brian Anthony

Personal Robots Group, MIT Media Lab 2019

Undergraduate Research Assistant

Advisor: Professor Cynthia Breazeal

MIT Biomimetics Lab, MIT Mechanical Engineering 2017

Undergraduate Research Assistant

Advisor: Professor Sangbae Kim

Work Experience

REACT NEURO, Cambridge, MA, USA 2020-2021

Virtual Reality Experience Designer, supervisor: Dr. Shaun Patel

GREE , Tokyo, Japan 2018

XR Intern, Supervisor: Ken Watanabe

Universal Studios Japan, Osaka, Japan Postponed

Teaching Experience

Teaching Assistantship

[5]	2.00b	Toy Product Design , MIT	Spring 2022
[4]	2.009	Product Engineering Processes , MIT	Fall 2020
[3]	2.00b	Toy Product Design , MIT	Spring 2020
[2]	Bootcamp	MehtA+ Introduction to ML , MehtA+	Summer 2020
[1]	8.01	Mechanics , MIT	Fall 2017

Co-instructing

[2] **MISTI** **MIT International Science & Tech Initiative** , Bahrain Winter 2023

[1] **MISTI** **MIT International Science & Tech Initiative** , Jordan Winter 2020

Shop Training

MIT Makerworkshop **Student Machine Shop Mentor**, MIT 2019- Present

MIT Makerlodge **Student Machine Shop Mentor**, MIT 2017-2018

Mentoring

All students are co-advised by Professor Stefanie Mueller

Undergraduate Research Assistants (UROP)

[1] Wilhelm Schoeman 2022 [5] Brandon Wong 2022-2023

[2] Shanti Mickens 2022

[3] Benjamin Owen-Block 2022

[4] Andrew Doan 2022

Invited Talks

American University of Bahrain, Novel Material Technologies 2023

MIT, MISTI Alumni Career Panel, *Career, Culture and Language Barriers*, hosted by Eduardo Rivera 2021

CleverPlay, The STEMCast, *Mechanical Engineering Through HER Eyes*, hosted by Latifa AlKhalifa 2021

The National Space Science Agency, NSSA Symposium, *Women in STEM: Investigating Space Through Virtual Reality* , hosted by Latifa AlKhalifa 2021

The Hill Editorial, *Aspiration and Resilience: The New Space Age*, hosted by Steve Clemons and Embassy of the United Arab Emirates 2021

MIT, MIT Nano Explorations, *Design of a Virtual Environment for Physiological and Subjective Monitoring of User Presence in VR*, hosted by Dr. Brian Anthony 2020

University of Bahrain, UOB Pep Talks, *KanKan: Kanji to Katakana Physical OCR Translator*, hosted by The English Language Center (ELC) 2019

Awards

Crown Prince International Scholarship, Bahrain 2014 - Present
Pi Tau Sigma (PTS) Mechanical Engineering Honor Society, MIT

References

Professor Stefanie Mueller

Associate Professor
EECS/ MechE
MIT
stefanie.mueller@mit.edu
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Dr. Brian Anthony

Principal Research Scientist
MechE
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Professor David Wallace

Professor
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