

# Mustafa Faisal Abdelwahed

📍 Villa 2, District 11/12 New Cairo, Cairo, 11865 📞 +201006502564

✉ mustafa.faisal@h-eng.helwan.edu.eg

## Profile

---

I'm a teaching/research associate interested in knowledge representation and reasoning field. I'm searching for a PhD position that works with projects related to autonomous reasoning, planning agents and/or cyber security topics.

## Experience

---

**Computers and Systems Department - Helwan University** Feb 2016 – Ongoing  
*Teaching/Research Associate*

Teaching subjects related to artificial intelligence, machine learning, and microprocessor-based systems. While researching into topics related to logic programming, knowledge representation, and reasoning.

**Valeo** Jan 2014 – Feb 2016  
*Embedded Software Engineer*

Collaborated with developers and performance engineers to enhance supportability and identify performance bottlenecks. While building, testing, and deployed scalable, highly available and modular software products.

## Awards

---

**Best masters thesis in Engineering Sciences and Technology** 2019/2020  
*Helwan University*

## Education

---

**M.Sc. in Computer Engineering** Feb 2016 – May 2019  
*Helwan University* *GPA: 3.48/4.0*

Thesis title: A Machine Learning Based Algorithm for Motion Planning. The thesis presented how to utilize case-based reasoning for solving the motion planning problem.

**B.Sc. in Communication and Information (Credit hours - Dual Degree)** Feb Sept  
2008 – June 2013

*Helwan University*

*GPA: 3.4/4.0*

Studied subjects related to artificial intelligence and embedded systems, I'm second ranked on top of my class.

## **Publications**

---

- Abdelwahed, M.F., Mohamed, A.E. and Saleh, M.A., 2020. Solving the motion planning problem using learning experience through case-based reasoning and machine learning algorithms. Ain Shams Engineering Journal, 11(1), pp.133-142.
- Abdelwahed, M.F., Mohamed, A.E. and Saleh, M.A., 2019. Improving Solution Quality for Experience-Based Framework Through Clustering Algorithms. IEEE Access, 7, pp.106720-106725.
- Abdelwahed, M.F., Saleh, M. and Mohamed, A.E., 2018. Speeding up single-query sampling-based algorithms using case-based reasoning. Expert Systems with Applications, 114, pp.524-531.

## **Skills and Competence**

---

LANGUAGES

### **Arabic**

*Level: Mother tongue*

### **English**

*Level: C1*

*IELTS: 7.5*

PROGRAMMING LANGUAGES

### **C/C++**

*Years of experiences: +10*

### **Julia**

*Years of experiences: +2*

### **Python**

*Years of experiences: +6*