

ASSMA HABADI

Chicago, IL | (m) (773) 470-7894 | ahabad2@uic.edu

ABOUT ME

An electrical and computer engineer pursuing a Ph.D. program in Robotics at the University of Illinois at Chicago. Highly passionate about various fields, including system control, data science, signal processing, vision and image processing, and neural networks.

EDUCATION

Ph.D. Electrical and Computer Engineering, University of Illinois at Chicago (UIC)	<i>Expected: Fall 2027</i>
M.Sc. Electrical and Computer Engineering, University of Illinois at Chicago (UIC)	<i>Fall 2022</i>
B.Sc. Electrical and Computer Engineering, King Abdulaziz University (KAU)	<i>Spring 2017</i>

WORK EXPERIENCE

Institute for Health Research and Policy at UIC

CHICAGO, IL

○ Graduate Research Assistant

FEB 2023 – MAY 2023

- Develop an Android app to track the performance of research participants in a dementia research project.
- Implement secure data transfer mechanisms to ensure participant data privacy and security.
- Participate in code reviews and contributed to the project documentation, adhering to best practices and quality standards.
- Conduct literature reviews to analyze trends and patterns in digital biomarker data collection and machine-learning techniques for wearable health technologies.

iD Tech Camps

CHICAGO/EVANSTON, IL

○ Instructor

MAY 2022 – AUG 2022

- Teaching several courses including Intro to Python Coding for Machine Learning, Artificial Intelligence and Machine Learning, and Blockchains and Cryptocurrencies 101 for high school students.
- Prepare lesson plans and ensure all students are meeting set curriculum goals.
- Apply behavior management techniques to enforce rules and safety regulations.
- Supervise all students and maintain a safe environment.
- Respond to and document critical incidents and perform CPR and FIRST AID.

KING ABDULAZIZ UNIVERSITY (KAU)

JEDDAH, SA

○ Teaching Assistant

APR 2019 – DEC 2020

- Assess in lecturing and preparing class notes for various courses (networking, database, object-oriented programming, basic circuit courses, control, and power).
- Supervise and lecture in practical and lab sessions for different courses.
- Grade weekly homework assignments, quizzes, term projects, and exams for several courses.
- Provide detailed key solutions for homework assignments, quizzes, and exams.
- Supervise up to 50 students and maintain a safe environment.
- Assess with engineering labs setup and product inventory/assessment.
- Contact and assess finding suitable engineering companies to provide internships and training opportunities for undergraduate students.
- Develops and assesses training curricula and/or recommends or utilizes programs provided by engineering companies to meet the department's goals and objectives for undergraduate students.
- Manage, review, follow up, and coordinate different departmental requests and administrative tasks.

KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY (KACST)

RIYADH, SA

SEPT 2017 - APR 2019

○ **Academic Research Specialist**

- Program and work closely with drones and microcontrollers.
- Coordinate requests involving multiple research teams.
- Write a daily memorandum about the group's daily accomplishments.
- Assisting in managing research projects through all stages including concept, implementation, and experimental testing.
- Read and assist in writing manuscripts/review articles, compiling figures and tables using the data obtained for publication in peer-reviewed journals.

UNIVERSITY OF CALIFORNIA IN SAN DIEGO (UCSD)

SAN DIEGO, CA

FEB 2018 - JAN 2019

○ **Visiting Researcher**

- Engaged in a KACST-funded collaborative project that mainly focused on drones and air quality.
- Contributed to several collaborative research projects focused mainly on telecommunications.

TRAINING AND WORKSHOPS

SAUDI YOUNG LEADERS EXCHANGE PROGRAM

WASHINGTON, DC

JUL 2017

- A three-month exchange program coordinated by the US Embassy and administrated by Legacy Intl. that provides training sessions with experts, volunteer opportunities, and experiential events focused on innovation, leadership, program design, and critical thinking.

SOLDERING AND TROUBLESHOOTING WORKSHOP

JEDDAH, SA

OCT 2016

- A 3-day workshop that focuses on providing a detailed understanding of printed circuit board construction including copper layers, barrel plating, and porosity. The interaction between the PCB and the selective soldering process and heat flow characteristics.

SOFTWARE SKILLS

- **OBJECT-ORIENTED LANGUAGES**
 - including but not limited to Java, C++, C#, Python, Visual Basic.NET, Objective-C, and MATLAB.
- **DATABASE LANGUAGES**
 - specifically, SQL and XQuery.
- **HARDWARE DESCRIPTION LANGUAGE**
 - specifically, Verilog HDL.
- **SIMULATION SOFTWARES**
 - such as Orcad Pspice, Proteus Design, and Robot Operating System (ROS)
- **DESIGN SOFTWARES**
 - including Solid Works, Adobe Photoshop, and Abode InDesign.
- **MANAGEMENT SOFTWARES**
 - specifically, Microsoft Project and Microsoft Excel.

AWARDS

A FIRST-PLACE PROJECT IN INNOVATION

JEDDAH, SA

APR 2018

- Won in the Emirate of Makkah cultural form; the innovative track for individuals' electronic applications for a project titled: "Intelligent Safety School Buses System using RFID and Carbon Dioxide Detection". The project was implemented in the region and received a grant to fund it by the prince of Makkah Khalid bin Faisal Al Saud.