

HEBA FLEMBAN

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EDUCATION

- University of Illinois Urbana-Champaign, USA** *December 2019*
Master of Engineering in Electrical & Computer Engineering *GPA: 3.2/4.0*
- Effat University, Jeddah** *June 2014*
Bachelor of Science in Electrical & Computer Engineering, Second Honors *GPA: 3.6/4.0*
- Course Work:** Machine Learning; Deep Learning; Artificial Intelligence; Introduction to Optimization; Computer Vision; Abstract Linear Algebra; Multimedia Signal Processing; Introduction to Robotics
- Programming Languages:** Python, MATLAB, Java, C++, HTML, VHDL and Verilog

WORK EXPERIENCE

- Engineering IT - University of Illinois, Champaign, IL** *Jan 2019 - May 2019*
- Coordinated over 30 phone calls, walk-ins, and email requests daily between clients and Engineering IT teams.
 - Resolved technical issues regarding Blackboard and university websites on a campus level.
- President - Saudi Students Association at University of Illinois, Champaign, IL** *Dec 2018 - Dec 2019*
- Planned and executed more than 32 events, for over 150 Arab and Gulf Students.
 - Coordinated orientation activities for freshmen students with the Saudi Arabian Cultural Mission (SACM).
 - Negotiated and secured funding of over \$25,000 from the Student Organization Resources Fee & external sponsors.
- Lecturer - Effat University, Information System department, Jeddah** *Aug 2014 - Jun 2015*
- Conducted programming lab sessions for two sections of undergraduate students.
 - Coordinated & taught introductory courses in computer science and engineering for ten sections of foundation students.
 - Prepared teaching material, graded assignments and exams, and conducted office hours.
- Teaching Assistant - King Abdulaziz Foundation for Giftedness (Mawhiba), Jeddah** *May 2014 - Aug 2014*
- Mentored at an advanced summer program developed for top high school students aiming to build fundamentals of electrical engineering.
 - Assisted and prepared scientific experiments for a class of 30 students.
- Design Engineer - Diyar Consultants, Jeddah** *May 2013 - Aug 2013*
Department of Integrated Communication Technologies
- Designed technology systems layouts to create comprehensive blueprint plans for clients using AutoCAD.
 - Planned single line riser diagrams to show power distribution based on clients' needs and specifications.
- Intern - ABB, Jeddah** *May 2012 - Aug 2012*
- Completed certified training in KNX systems for smart home and smart building automation.
 - Designed KNX projects and programmed the system using Engineering Tool Software (ETS).

RESEARCH EXPERIENCE

- University of Illinois, Champaign, IL** *Aug 2019 - Dec 2019*
- Contributed to the re-implementation of Oriol Vinyals, Show and Tell: A Neural Image Caption Generator, 2014, arXiv:1411.4555, to build a generative model based on deep recurrent network architecture.
- Pennsylvania State University, State College, PA** *May 2019 - Jul 2019*
- Analyzed deep Convolutional Neural Network (CNN) for ultrasound image enhancement to detect breast tumors.
 - Experimented with optimal combination scheme using deep neural network as well as convex optimization to improve denoising performance.
- Effat University, Jeddah, Saudi Arabia** *Aug 2013 - May 2014*
- Co-published a paper on the implementation of a Solar Concentrating System prototype that is energy efficient, 30-50% lower in cost, and more durable.