FirstName LastName

Senior XXXXX XXXXX at University of Overleaf

Date of Birth: Sep. X, XXXX

XXXXXXXXX

XXXXXXXX

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Google Scholar: H. El-Hussieny

ORCID:0000-0002-2296-616X

Interests

- 🎓 Soft Robotics
- 🎓 Robotic Teleoperation
- 🎓 Human-Robot Interaction
- 🎓 Applied Intelligence
- 🎓 Embedded Systems Design

Skills

Programming:

ROS, Moveit, Gazebo	●●●●●
MATLAB, C++	●●●●●
Unity3D	●●●●○
Python	●●●○○
Bash scripting	●●○○○

Tools:

OpenCV, PCL	●●●●○
TensorFlow	●●●○○
Keras	●●●●○

CAD Tools:

CATIA	●●●●○
MSC ADAMS	●●●●○

Robot Simulators:

V-REP, Webots	●●●●●
SOFA	●●●○○

Working Experience

Aug, 2019 – ongoing — **Senior Research Fellow** — University of Salford, UK
Working as a Senior Research Fellow in Soft Robotics at the University of Salford. Major research area includes control of pneumatic actuators and soft grippers.

Sep, 2016 – ongoing — **Assistant Professor (currently onleave)** — Benha Univ., Egypt
Assistant Professor of Robotics Engineering at Electrical Engineering Department, Faculty of Engineering (Shoubra), Benha University.

Sep, 2018 – Aug, 2019 — **Adjunct Assistant Professor** — E-JUST Univ., Egypt
Working as an Adjunct Assistant Professor for one day/week at Mechatronics and Robotics Engineering Department, Egypt-Japan University of Science and Technology (E-JUST), Egypt.

May, 2017 – Jun, 2018 — **Post-Doc Fellow** — KOREATECH Univ., S. Korea
Worked on soft haptic for soft robots research and involved in a collaboration project with CHARM Lab., Stanford University with title "Human-Centered Design and Control of Vine Robots for Disaster Scenarios".

Oct, 2016 – Feb, 2017 — **Adjunct Assistant Professor** — Zewail City Univ., Egypt
Worked as a part-time Adjunct Assistant Professor at Aerospace Engineering Department for two days/week. Delivering an undergraduate course (SPC 318: System Modeling and Linear Systems).

Sep, 2015 – May, 2016 — **Visiting Researcher** — NAIST Univ., Japan
Conducted experiments with KUKA LWR iiwa R820 robot manipulator and doing research on eye-gaze input interface in HRI applications.

Jul, 2008 – Sep, 2011 — **Teaching Assistant** — Benha Univ., Egypt
Worked as a full-time Teaching Assistant at the Electrical Engineering Department, Faculty of Engineeing (Shoubra), Benha University to help in teaching courses in electronics and robotics subjects.

Jul, 2008 – Sep, 2011 — **Embedded Systems Engineer** — Egytronix Co., Egypt
Worked as a part-time embedded systems engineer (four days/week) in the field of power electronics applications and embedded systems design.

Education

Postgraduate Studies

2013 – 2016 — **Ph.D. in Mechatronics and Robotics Engineering** — E-JUST, Egypt
Title: Development of a Cognitive Human-Robot Interaction System for Dexterous Teleoperation.
Supervisors: Prof. Said Megahed, Dr. Samy Assal, Prof. Ahmed A. Abouelsoud and Prof. Tsukasa Ogasawara.
Grade: CGPA: 3.78
HRI | Teleoperation | Shared Control | Eye Gaze

2011 – 2013 — **M.Sc. in Mechatronics and Robotics Engineering** — E-JUST, Egypt
Title: Improving Robots Exploration by Heuristic Backtracking in Sensor-based Techniques.
Supervisors: Dr. M. Abdellatif and Dr. Samy Assal
Grade: CGPA: 3.5
Mobile Robots | Exploration | Navigation | Path Planning

Undergraduate Study

2002 – 2007 — **B.Sc. in Electronics and Communications Engineering** — Benha Univ., Egypt
Prject Title: A Mototrized Wheelchair for Handicapped.
Supervisors: Dr. Asharaf Hafez
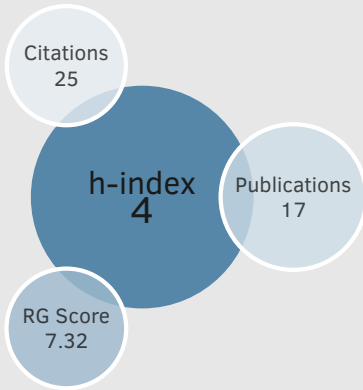**Grade:** Very Good (Ranked 3rd. among 200 students)

Other Training

May 2005 — **Embedded Systems Diploma** — Jelecom Co., Egypt
Training on microcontrollers: 8051, AVR, PIC and Motorola.

Teaching Experience

Postgraduate Courses

E-JUST University	**MTR 601: Intelligent Control Systems** Fuzzy Logic Control, Neural Network Control, Evolutionary Algorithms and Genetic Programming.	Fall'18, Spring'19
Benha University	**ECE 501: Advanced Embedded Systems** Micro-controllers and Microprocessors Applications	Fall'16

Undergradute Courses

Benha University	**ECE 447: Robotics Engineering** Robot Structure, Kinematics, Dynamics and Control.	Spring'17, Spring'19
	ECE 101: Electronics (I) Basic of Electronics: PN Junctions, Diode applications.	Fall'16
	ECE 102: Electronics (II) LEDs, Optocouplers, Photodiodes and applications.	Spring'17
	ECE 204: Electrical and Electronic Measurements PMMC, Avometers, Digital Instruments, Sensor and actuators.	Fall'16, Fall'18
ZewailCity University	**SPC 318: System Modeling and Linear Systems** Transfer function, State-Space, First and Second Order Systems, Stability Analysis and Root Locus.	Fall'18
YouTube	**Introduction to LaTeX in Arabic**	Since Dec 8, 2014

Academic Supervision

2018–2020	Demonstration-Guided Motion Planning for Continuum Robots	Ph.D.
2018–2020	Intelligent Control of Automotive Air-Spring Suspension System.	Ph.D.
2019–2020	Intuitive teloperation of Multi-section Continuum Robots.	M.Sc.
2019–2020	Autonomous Tasks-around-head Assistance for Patients with Movement Disabilities	M.Sc.

Honours and Awards

May 2018	Award of Research Excellence (10000 EGP)	Benha Univ., Egypt
Jan 2017	Award of Research Excellence (4000 EGP)	Benha Univ., Egypt
Sep 2011	Awarded M.Sc. and Ph.D. Scholarships	MoHE, Egypt

Invited Talks

Mar 2019	**Entrepreneur Workshop** Gave a two hours lecture on career support and entrepreneurships.	E-JUST Univ.
May 2009	**Getting Started in Embedded Systems** Gave a lecture on getting started in embedded systems.	Benha Univ.

Review Duties

Journals	Advanced Robotics, Intelligent Service Robots.
Conferences	ICRA'17, IROS'18, ICRA'19, ICAR'19.

References

Ref. 1	**Prof. XXX CCCC** xxx[dot]yyy[at]ddd[dot]edu[dot]eg	EE Univ., Egypt
Ref. 2	**Prof. XXX CCCC** xxx[dot]yyy[at]ddd[dot]edu[dot]eg	EE Univ., Egypt
Ref. 3	**Prof. XXX CCCC** xxx[dot]yyy[at]ddd[dot]edu[dot]eg	EE Univ., Egypt

Publications

Journals

- mmm

Conferences

- ccc