

## Curriculum vitae

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### Osama Elnahas Helaly

Assistant Professor, Department of Electrical Engineering,  
Assiut University, Egypt

PhD in Electronics and Communication Engineering

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Department of Electrical Engineering, Assiut University,  
Assiut, 71515 (Egypt)

Date of Birth: 8th May 1985

Nationality: Egyptian



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### Research Interest

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- Cognitive Radio Networks,
- Wideband Spectrum Sensing,
- Game Theory,
- Energy Harvesting,
- Compressive Sensing, and Optimization Algorithms.

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### Publication

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1. **O. Elnahas**, M. Elsabrouty, O. Muta and H. Furukawa, "Game Theoretic Approaches for Cooperative Spectrum Sensing in Energy-Harvesting Cognitive Radio Networks," in *IEEE Access*, vol. 6, pp. 11086-11100, 2018.
2. **O. Elnahas**, and Maha Elsabrouty, "Wideband Spectrum Sensing Technique Based on Multitask Compressive Sensing", in *IEEE Symposium on Computers and Communications (ISCC)*, Messina, Italy, 27-30 June, 2016.
3. **O. Elnahas**, and Maha Elsabrouty, "Cyclostationary-based cooperative compressed wideband spectrum sensing in cognitive radio networks", in *Wireless Days*, Porto, 2017.

4. M. Abo-Zahhad, Sabah M. Ahmed and **O. Elnahas**, "A Wireless Emergency Telemedicine System for Patients Monitoring and Diagnosis", International Journal of Telemedicine and Applications, Hindawi Publishing Corporation, vol.2014, pp. 1-11, 2014.
5. M. Abo-Zahhad, Sabah M. Ahmed and **O. Elnahas**, "Android Based Remote Online Vital Signs Processing for Patient Monitoring and Diagnosis", Sop Transactions on Signal Processing, 2015.

## Education

Feb. 2015 to Feb. 2018	<p><b>PhD student in Electronics and Communication Engineering</b> Egypt-Japan University of Science and Technology, School of Electronics, Communication and Computer Engineering, Department of Electronics and Communication Engineering</p> <p>Thesis Topic : <b>"Spectrum Sensing and coexistence for next generation wireless networks"</b> <b>Complete at least 18 credit hours within the following guidelines:</b> <u>1<sup>st</sup> and 2<sup>nd</sup> semester:</u> Coursework of 18 credit hours, including core courses of 6 credit hours, elective courses of 6 credit hours and a Research Seminar of 6 credit hours.</p>
Mars 2017 to Dec. 2017	<p><b>Visiting researcher in Kyushu University, Fukuoka, Japan</b></p>
Sep. 2009 October 2014	<p><b>Master grad in Electronics and Communication Engineering</b> Assuit University, Faculty of Engineering, Department of Electrical Engineering</p> <p>Thesis Topic : <b>"A Wireless Emergency Telemedicine System for Patients Monitoring and Diagnosis"</b></p> <p>Graduate Courses: Computational Methods and Programming, Digital Communication and Digital Signal Processing, Electronic Circuits, Data Networks and Advanced Topics in Wireless Communications.</p>

## Undergraduate Education

Oct. 2002 to July. 2007	<p><b>Bachelor degree in Architectural Engineering.</b> Department of Electrical Engineering, Faculty of Engineering, Assiut University, Assiut (Egypt)</p> <p>Cumulative Grade: Distinction with honor (<b>Percentage: 90.92 %</b>) Rank: the 1st in the Department of Architecture Engineering. Graduation Project: "Wireless Telemedicine System". Graduation Project Grade: Distinction</p>
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## Teaching

May 2018 to Present	<b>Assistant Professor</b> Department of Electrical Engineering, Faculty of Engineering, Assiut University, Assiut (Egypt).			
Sep. 2014 to Feb. 2015	<b>Teaching Assisstant</b> Department of Electrical Engineering, Faculty of Engineering, Assiut University, Assiut (Egypt) Main activities and responsibilities includes: <ul style="list-style-type: none"> <li>• Teach exercises and LAB sessions to undergraduate students.</li> <li>• Grading exams and co-supervise graduation projects.</li> </ul>			
Jan. 2009 to Sep. 2014	<b>Demonstrator</b> Department of Electrical Engineering, Faculty of Engineering, Assiut University, Assiut (Egypt) Main activities and responsibilities includes: Preparing and delivering lab experiments and tutorials. Discussing and grading homework assignments. Courses include: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>▪ Digital Signal processing.</li> <li>▪ Antennas and wave propagation.</li> <li>▪ Digital circuit design.</li> <li>▪ Numerical Analysis.</li> <li>▪ Semiconductor Devices.</li> <li>▪ Signals and System Analysis.</li> <li>▪ Electrical Circuits</li> </ul> </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>▪ Electronic Circuits.</li> <li>▪ Probability Theory</li> <li>▪ Wireless Communications.</li> <li>▪ Electronic Labs.</li> <li>▪ Communications Lab.</li> <li>▪ Analog and Digital Communication Systems.</li> <li>▪ Computer Programming</li> </ul> </td> </tr> </table>		<ul style="list-style-type: none"> <li>▪ Digital Signal processing.</li> <li>▪ Antennas and wave propagation.</li> <li>▪ Digital circuit design.</li> <li>▪ Numerical Analysis.</li> <li>▪ Semiconductor Devices.</li> <li>▪ Signals and System Analysis.</li> <li>▪ Electrical Circuits</li> </ul>	<ul style="list-style-type: none"> <li>▪ Electronic Circuits.</li> <li>▪ Probability Theory</li> <li>▪ Wireless Communications.</li> <li>▪ Electronic Labs.</li> <li>▪ Communications Lab.</li> <li>▪ Analog and Digital Communication Systems.</li> <li>▪ Computer Programming</li> </ul>
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## Personal skills and competences

Language	Able to carry out and publish academic research and other technical outputs in the following: Arabic (Mother tongue) English (Excellent)- TOEFL score (IBT) : 94
Social skills and competences	<ul style="list-style-type: none"> <li>• Good presentation &amp; communication skills</li> <li>• Active team member and independent research.</li> </ul>

Technical skills and competences	<ul style="list-style-type: none"> <li>• Ability to work well under pressure.</li> <li>• Ability to work well with all levels of management and personal.</li> <li>• Patient and highly self-motivated.</li> <li>• Effective Teaching</li> </ul>
Computer skills and competences	<ul style="list-style-type: none"> <li>• MATLAB</li> <li>• C# Language</li> <li>• My SQL</li> <li>• LabView</li> </ul>

## Affiliations

<b>2018 - Present</b>	<b>Assistant Professor at Electrical Engineering Department,</b> Faculty of Engineering, Assiut University, Egypt
<b>2014 - 2018</b>	<b>Teaching Assistant at Electrical Engineering Department,</b> Faculty of Engineering, Assiut University, Egypt
<b>2009 - 2014</b>	<b>Demonstrator at Electrical Engineering Department,</b> Faculty of Engineering, Assiut University, Egypt
<b>2016-2017</b>	<b>President of Student Union in Egypt-Japan University of Science and Technology</b>
<b>2007-Present</b>	<b>Registered Engineer at Egypt Engineers Syndicate, Assiut, EGY</b>

## References

<b>Prof. Mohammed Abo-Zahad</b> <a href="mailto:mohammed.zahhad@ejust.edu.eg">mohammed.zahhad@ejust.edu.eg</a>	Dean of School of Electronics, Communications & Computers, EJUST University, Egypt.
<b>Prof. Maha Elsabrouty</b> <a href="mailto:maha.elsabrouty@ejust.edu.eg">maha.elsabrouty@ejust.edu.eg</a>	Electronics and Communications Department (ECE), EJUST University, Egypt
<b>Prof. Osamu Muta</b> <a href="mailto:muta@ait.kyushu-u.ac.jp">muta@ait.kyushu-u.ac.jp</a>	Professor, Kyushu University, Japan