

# Curriculum Vitae

## Personal Data and Contact Information



First name	Middle Name	Last Name
Sulaiman	Mohammad	Rabbaa

Date of birth dd/mm/yyyy	Place of birth	Marital Status	Citizenship
28 / 11 / 1966	Fandaqoumia – Palestine	Married , five children	Palestinian

Mailing Address	Telephone Number	Fax number	E-mail address
Physics Department, Arab American University, P.O.Box 240, Jenin, Palestine.	+970-4-2510801 Ext. 1187 (work)  +970-04- 2451919 (home)  +970-599358003 (mobile)	+970-4-2510810	<a href="mailto:sulaiman.rabbaa@aauj.edu">sulaiman.rabbaa@aauj.edu</a> <a href="mailto:sulr919@yahoo.com">sulr919@yahoo.com</a>

## Academic Background

Degree	Name of Degree	Department, University, Country	Started mm/yy	Award mm/yy
Doctorate	Ph.D. in Engineering Sciences	Electronics and Informatics (ETRO), Vrije Universiteit Brussel (VUB), Belgium	4/2009	2/2013
Master	Master in Physics/ Solid State Physics	Physics, University of Jordan, Jordan	2/1989	6/1991
Bachelor	Bachelor of Science, with a Major in Physics	Physics, University of Jordan, Jordan	9/1985	1/1989

### Thesis Completed

<b>1- Ph. D. in Engineering Sciences / Electronics and Informatics</b>	<b>Supervisor</b> Prof. Johan Stiens	<b>Date Completed- mm/yy</b> 2/2013
<b>Title</b> Theoretical Study of the Electronic and Optoelectronic Characterization of GaN-Based Semiconductor Devices		
<b>2-M. Sc. in Physics</b>	<b>Supervisor</b> Dr. Mohammad Sulaiman	<b>Date Completed-mm/yy</b> 6/1991
<b>Title</b> Electrical Characterization of Dielectric Materials Below 2 GHz		

### Professional Experience

<b>POSITION</b>	<b>PLACE</b>	<b>DUTIES</b>	<b>DATE</b>
Teaching Assistant in Physics Labs	University of Jordan – Amman	Teaching labs courses	Feb. , 1989 – June , 1991
Science Teacher	Jaba' Secondary School – Jenin	Teaching	Sep. , 1992 – Feb. , 1997
Head of Educational Technologies Section	Directorate of Education _ Jenin	Supervising on schools according to labs, computers, libraries, and educational media	Feb. , 1997 – Feb. , 2003
Instructor	Arab American University (AAUJ)	Instructor	Feb. , 2002 – Now

## Training

NO.	PROGRAM	PLACE	DATE	DESCREPTION
1	Training for qualifying trainers	Ramallah – Palestine	August , 1994	6 days including training for the new curriculum of physics for 9 <sup>th</sup> & 10 <sup>th</sup> grades
2	Training for qualifying trainers	Ramallah – Palestine	July , 1995	Trainer from Harvard University trained us within 28 days in interest subjects in curriculum , education & teaching methods like group system
3	Completion for Oslo program	Nablus – Palestine	January , 1996	Trainers from Teachers Association in Oslo contributed in this program about experiments in science curriculum for 6 days
4	T.V. & Video	Ramallah – Palestine	May , 1997	Trainer from England showed us how to shoot and use video camera for 6 days
5	Teaching Materials in Biology	Bethlahem – Palestine	August , 1998	Trainer from Germany taught us for 10 days how to design Teaching Materials in Biology using simple environment ores
6	Teaching Materials	Amman – Jordan	March , 1999	6 days including methods in designing educational aids for grades from 1 to 6
7	LaTeX	Brussels- Belgium	May, 2010	How to use LaTeX
8	BibTeX	Brussels- Belgium	May, 2010	How to use BibTeX
9	Where to publish your paper	Brussels- Belgium	April, 2011	Workshop about the good selections of journals to publish papers.
10	Use of Smart Boards	AAUJ	March, 2013	Workshop
11	Using Technology in Classroom	AAUJ	May, 2013	Workshop
12	Using EndNote in Scientific Research	AAUJ	March, 2015	Workshop

## Contributions

### Articles Published in Refereed Journals

1. **S. Rabbaa**, “Electric Properties of Dielectric Materials at Intermediate Frequencies”, *Journal of Al-Quds Open university for research and studies*, No. 12 , February 2008.
2. **S. Rabbaa**, and J. Stiens, “Charge density and plasmon modes in a triangular quantum well model for doped and undoped gated AlGa<sub>N</sub>/Ga<sub>N</sub> HEMTs”, *J. Phys. D: Appl. Phys.* , vol. 44, pp 325103, (2011).
3. **S. Rabbaa**, and J. Stiens, “Validation of a triangular quantum well model for Ga<sub>N</sub>-based HEMTs used in pH and dipole moment sensing”, *J. Phys. D: Appl. Phys.* , vol. 45, pp. 475101, (2012).
4. G.Shkerdin, **S. Rabbaa**, J. Stiens, and R. Vounckx , “Free electron absorption in n-doped Ga<sub>N</sub> semiconductors at mid-IR wavelengths in the strong phonon-plasmon coupling regime”, *Journal of Physics D- Applied physics*, vol.45, n. 49, pp. 495103, (2012).
5. G.Shkerdin, **S. Rabbaa**, J. Stiens, and R. Vounckx , “Influence of electron scattering on phonon-plasmon coupled modes dispersion and free electron absorption in n-doped Ga<sub>N</sub> semiconductors at mid-IR wavelengths”, *Physica Status Solidi B*, vol. 251, Issue 4, pages 882–891, (2014).
6. A. F. Qasrawi, **S. Rabbaa**, “Optical Interactions in the InSe/CdSe interface”, *Physica Status Solidi B*, vol. 253, Issue 4, pages 755–759, (2015).

### Conferences Presentations

1. **S. Rabbaa**, W. Vandermeiren, and J. Stiens, “Longitudinal optical phonon-plasmon interaction in Ga-group V compounds for IR and THz applications”, *Proc. of the 15th Annual Symp. of the IEEE Photonics Benelux Chapter*, TU Delft: the Netherlands, pp. 257-260, (2010).
2. **S. Rabbaa**, and J. Stiens, “Theoretical triangular quantum well model for AlGa<sub>N</sub>/Ga<sub>N</sub> HEMT structure used as polar liquid sensor”, *IEEE International Conference in Semiconductor Electronics (ICSE)*, Kuala Lumpur: Malaysia, (2012).
3. **S. Rabbaa**, G. Shkerdinand, W. Vandermeiren and J. Stiens, “GaAs-based grating system for Q-switching on the basis of IMOS structure”, *IEEE International Conference in Semiconductor Electronics (ICSE)*, Kuala Lumpur: Malaysia, (2016).
4. **S. Rabbaa**, “Reflectivity modulator based on GaSb/GaAs heterostructure”, *Journal of Physics: Conference Series*, vol. 869, Frontiers in Theoretical and Applied Physics/UAE 2017 (FTAPS 2017), (2017).

## **Computer Skills**

Windows and Microsoft Office, Matlab, different softwares like Gsolver

## **Research of Interests**

- 1-** Electronic and optoelectronic properties of semiconductors, like GaN.
- 2-** Electrical properties of dielectric materials.
- 3-** Biomedical engineering.
- 4-** High electron mobility transistors