## **Ahmed Sameer Mohamed Ramadan**

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EDUCATION	<ul> <li>M.Sc. in Mechanical Engineering, Assiut University, Egypt.</li> </ul>	Jan 2019 – May 2023	
	<ul> <li>Final grade:4/4</li> <li>Thesis title:Mathematical Modeling of Radiative Heat Transfer in Human Head Exposed to Mobile Phone Radiation</li> <li>Thersis summary:The thesis aimed at constructing a realistic mathematical model that describes the complex biothermal processes and events resulting from the interaction of the microwave radiation of the mobile phone (especially fifth-generation frequencies) with the human head. We Carried out a coupled and thorough electromagnetic and thermal analyses where Maxwell equations and Penne bioheat equation were employed. Different parameters such as antenna position relative to the head, multiple microwave frequencies, and aging effect (the variation of the dielectric properties with age) were considered.</li> </ul>		
	<ul> <li>B.Sc. Mechanical Engineering, Assiut University, Egypt. Transcript</li> <li>Cumulative average grade: "Distinction with Honors" with percent 90.13% (Ranke Detailed Courses Transcript Here</li> <li>Graduation Project: "Analysis of The Performance of Hybrid Mechanical Compressi Assisted System in Hot Arid Areas": Grade "Distinction"</li> </ul>		
WORK EXPERIENCE	<ul> <li>Research and Teaching Assistant, Assiut University, Egypt</li> <li>Researcher at the heat transfer laboratory</li> <li>Responsible for assisting faculty members and professors in teaching duties to the examples during tutorials, Proctors exams, grades midterm tests and homework, and Assigns material in class as needed.</li> <li>Assigned courses: Heat and Mass Transfer, Heat Exchangers, Engineering Thermodynamics, Engineering Economics, Environmental Engineering, Technical Drawing</li> </ul>	records grades in grade books. Analysis, Fluid Mechanics,	
	<ul> <li>Executive Director of Innovative students projects Unit, Assiut Universi         <ul> <li>Oversees the filtering process of the proposed projects, the financial funding of the technical support when needed.</li> <li>Supervises the administrative affairs of the unit.</li> <li>Represents the Unit in conferences and events.</li> <li>Led engineering teams in projects such as design of mechanical ventilator and green I</li> </ul> </li> <li>Chairman of American Society of Mechanical Engineers (ASME) - Egyption</li> </ul>	accepted projects, and provides	
	• Leading the section in organizing academic and industrial sessions and webinars, org conferences related to mechanical engineering specifically and engineering in general	ganize events, competitions and	
PUBLICATIONS	<ul> <li>Published Articles         <ul> <li>Ahmed Ramadan, H. Shafey, Nabil Abdelshafe, Ali K. Abdel Computational Modeling of Biothermal Effects Inside Hum Mobile Phone Radiation. JES. Journal of Engineering Science https://www.doi.org/10.21608/jesaun.2023.177825.1186</li> </ul> </li> <li>Under Review Articles         <ul> <li>Ahmed S. Ramadan, H. M. Shafey, Nabil Y. Abdelshafe, Ali K. Abdel-Rah Exposure to Sub-6 GHz Fifth-Generation Mobile Phone Radiation in Ana Authorea. November 09, 2023. https://www.doi.org/10.22541/au.169956</li> <li>Ahmed S. Ramadan. Influence of Ambient Conditions on Induce Temper Human Head Model Irradiated by Microwave Radiation.</li> </ul> </li> </ul>	an Head Exposed to s, 51, 2, 2023, 16-36. man. Realistic Modeling of tomical Child Head Model. 822.22451476/v1	
PROJECTS	<ul> <li>A Mechanical Ventilator for COVID 19 Patients</li> <li>Led the team responsible for the design of the pneumatic circuit and help as well as the mechanical design of different parts.</li> <li>The device was simple, maintainable, and easy-to-manufacture with a lin The design and prototype were selected as One of the best 3 ventilators in the design and prototype were selected.</li> </ul>	nited budget of 4500 USD.	
	<ul> <li>Design of Green Hydrogen Generators</li> <li>Sizing and designing the green HHO and H2 generator for different appli fuel for home ovens and fuel cells. Responsible for thermodynamic and e</li> <li>Design and Implementation of Commercial Foot-scan</li> </ul>		

	<ul> <li>Responsible for the mechanical design of a pressure distribution measuring d in Biomedical engineering field in order to detect Diabetic foot.</li> </ul>			
	<ul> <li>Minesweeper Robot 2016, 2017</li> <li>Designed and built a minesweeper robot that detected mines and provide a map of the detected mines.</li> </ul>			
	<ul> <li>RC plane and UAV, AUN, Egypt</li> <li>Academic Advisor for Assiut University team which designed and manuford of Quadcopter which operates autonomously and the other is Fix-wing pradio controller. The team participated in The 7th International Competition Technical College for the UAV, and the SAE Aero Design competition for R</li> </ul>	lane which operates via of the Egyptian Military		
CERTIFICATES AND AWARDS	<ul> <li>Introduction to Mobile Robotics</li> <li>Certificate of Recognition and Appreciation from Assiut University</li> <li>Dean's List as Ranked 1st of 130 students</li> <li>First-class honours in Mechanical Engineering - Syndicate of Egyptian Engineers</li> <li>B.Sc. Graduation project Fund 60K EGP-Academy of Scientific Research and Technology (ASRT)</li> </ul>			
PROFESSIONAL MEMBERSHIPS	<ul> <li>American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Jan 2018         –Jan 2019</li> </ul>			
	<ul> <li>American Society of Mechanical Engineers (ASME)</li> <li>World society of sustainable energy technologies (WSSET)</li> </ul>	Jul 2019 –Present Jul 2019 –Present		
VOLUNTEER EXPERIENCE	<ul> <li>Assiut Robotics Lab, Assiut University, Egypt Jul 2015 – Jul 2017</li> <li>Mentor a group of 15 members to teach them the basic technical skills needed in robotics.</li> <li>Led HR committee</li> </ul>			
	<ul> <li>Life Makers Foundation, Assiut, Egypt Jun 2016</li> <li>Participated in a campaign demonstrating to the individuals the importance of ethics and the social values in order to build a better society.</li> </ul>			
	<ul> <li>The Egyptian Researchers, Social Media</li> <li>Worked as article translator and editor in the Engineering and Technology set</li> </ul>			
	<ul> <li>The Aliens, Social Media</li> <li>Worked as article translator and editor in the Engineering and Technology d</li> </ul>			
	<ul> <li>Assiut ASHRAE Student Chapter, Egypt</li> <li>Co-founder.</li> <li>Orginized workshops, webinars, and various events to introduce the stude ASHRAE: its Standards and Applications.</li> </ul>	Oct 2017 – Jul 2018 nts of my department to		
SKILLS	<ul> <li>Software Skills: COMSOL, CST MWS, ANSYS, SOLIDWORKS, AutoCAD.</li> <li>Programming Languages: C++, MATLAB, Fortran, LATEX.</li> <li>Soft skills: Good time management, very good communication skills, leadership, and problem solving.</li> </ul>			
LANGUAGES	<ul> <li>English:         <ul> <li>CEFR: C2</li> <li>IELTS score Overall:</li> <li>8.5 Listening:</li> <li>9 Reading:</li> <li>9 Writin TRF:2310008085RAMA1IHA</li> </ul> </li> <li>Arabic: Native speaker</li> </ul>	g: <b>7</b> Speaking: <b>8</b>		
REFERENCES	<ul> <li>Prof. Mohamed Mahmoud Abdelghany Google Scholar <ul> <li>Professor Emeritus, Mechanical Engineering Department, Assiut University.</li> <li>Email: mag@aun.edu.eg</li> <li>+20 1006006438</li> </ul> </li> <li>Dr. Nabil Yassin Abdelshafy Mohammed Google Scholar <ul> <li>M.Sc. Supervisor, Associate Professor, Mechanical Engineering Department, Assiut University.</li> <li>Email: nyassien@yahoo.com</li> <li>+20 1229212222</li> </ul> </li> <li>Dr. Osman Omran Osman Google Scholar <ul> <li>Associate Professor, Mechanical Engineering Department, Assiut University.</li> <li>Email: osman.mousa@aun.edu.eg</li> </ul> </li> </ul>	iversity.		

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