

## Curriculum Vitae



First-Name: *Essameldin* Surname/Last-Name: *Khadir*

Full-Name: *Essameldin Mohamed Osman Khadir Ahmed*

Title: Electrical Engineer

Current Positions: Teaching Assistant – University of Khartoum (2015 – Present)

Research Assistant, Energy Research Center (ERC) – University of Khartoum (2016 – Present)

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### Academic Qualification

#### **B.Sc. (Honors)**

- Specialization: Electrical and Electronic Engineering
- Class: First Class (Honors)
- Grade (CGPA): 8.82
- Date of award: October 26, 2015
- University: University of Khartoum

### Professional Societies and Institutes Memberships

- Member, Institute of Electrical and Electronics Engineers, MIEEE, USA, (2012)
- Member, IEEE Young Professionals, MIEEE-YP, (2014)
- Member, IEEE Power and Energy Society, MIEEE-PES, (2014)
- Member, IEEE Smart Grid Community, MIEEE-SGC, (2014)

## Awards

- **IEEE Day 2015 Projects Competition Prize** for achieving the 1<sup>st</sup> place out of 15+ other competing projects, IEEE Sudan Subsection, DAL Excellence Center, (2015)
- **BananIT\_BIT 2012 Prize** for being one of the TOP three achievers in the second year Electrical and Electronic Engineering, University of Khartoum, (2012)
- **General Union of Khartoum Locality Students Prize & TOP 100 Union Prize** for being one of the TOP 100 achievers in the Secondary School Certificate Examinations, (2010)
- **PETRONAS & Ministry of General Education Prize** for being one of the TOP 100 achievers in the Secondary School Certificate Examinations, (2010)
- **High School Prize** for best results in the final year Secondary School Certificate Mock Examinations among all the secondary schools in Khartoum state, (2010)

## Technical Projects

- **Solar Energy System** as a standby unit for powering a portion of the Faculty of Engineering – University of Khartoum as one of the projects of the Energy Research Center, (2016 – Present)
- A+ in the Graduation Project '**Human Imitation Robotic Arm**', submitted to the Electrical and Electronic Engineering Department, University of Khartoum, (2015)
- Direct supervision of 22 successful projects and pioneer Power Exhibition projects at the Electrical and Electronic Engineering Students Exhibition EESE – which achieved the 1<sup>st</sup> exhibition prize among all the exhibitions of the Engineer's Week 15, University of Khartoum, (2013)

## Training and Courses

- edX online course 'MIT Launch X – Becoming an Entrepreneur' –In progress
- Successful Completion of YALI Understanding Renewable Energy online course, (2017)
- Successful Completion of YALI Understanding Climate Change online course, (2015)
- Successful Completion of YALI Fundamentals of Starting and Running a Business online course, (2017)
- Successful Completion of YALI Fundamentals of Business Expansion online course, (2017)
- Completing an industrial training program in the Electrical Machines and Instrumentation at the Petroleum Technical Center (PTC), Khartoum – Sudan, November 2014

- Completing a 1 Professional Development Hours course on Sustainable Electrification Solutions for Developing Countries at IEEE Continuing Education, 24 August 2014
- Completing a 1 Professional Development Hours course on Careers in International Development at IEEE Continuing Education, 1 May 2013

### Extracurricular Awards

- **Students Society of Electrical and Electronic Engineering (SSEEE) – University of Khartoum Prize** for being the champion of the third year EEE Chess Competition, (2013)
- **IEEE Sudan Subsection Prize** for being one of the members of the team *NileCrocodiles* which ranked 1<sup>st</sup> in Sudan and 168th out of 7500 worldwide in the IEEEExtreme 7.0 Competition, (2013)
- **IEEE Sudan Subsection Prize** for being one of the members of the team *NileCrocodiles* which ranked 1<sup>st</sup> in Sudan in the IEEEExtreme 6.0 Competition, (2012)

### Volunteering Work

- One of the organizers of the Electrical and Electronic Engineering Department Formal Welcoming for its new first year students, University of Khartoum, (2015).
- One of the organizers of a '**How to Write a Scientific Paper**' session – An SSEEE event, University of Khartoum, (2015)
- One of the organizers of the IEEE day 2014, NTC Tower, Khartoum – Sudan. (2014)
- One of the organizing team of the Graduation Projects Day – An IEEE UofK-Students Branch event, NTC Tower, Khartoum – Sudan, (2014)
- One of the organizers of a '**How to Choose your Major**' session, Electrical and Electronic Engineering Department, University of Khartoum, (2013)
- One of the main organizers of the Electrical and Electronic Engineering Students Exhibition and the direct supervisor of 22 successful projects and a pioneer Power Exhibition, EESE – which achieved the 1<sup>st</sup> exhibition prize among all the exhibitions of the Engineer's Week 15, University of Khartoum, (2013) <https://www.facebook.com/EESE2013>
- One of the IEEE Sudan technical team members for organizing the first International Conference on Computing, Electrical and Electronic Engineering, ICCEEE, Khartoum – Sudan, (2013)
- A presenter at the Electrical and Electronic Engineering Students Exhibition, EESE 2011, University of Khartoum, (2011)
- One of the team members of the IEEE Sudan Initiative Opening Ceremony, Corinthia Hotel, Khartoum - Sudan, (2011)

### Posts Occupied

- Chairman, Students Society of Electrical and Electronic Engineering SSEEE, Electrical and Electronic Department, University of Khartoum, (2014 – 2015)
- Academic Secretary, Electrical and Electronic Engineering Students Exhibition, EESE2013, University of Khartoum, (2013)
- Chairman, Students Society of Electrical and Electronic Engineering i10 batch, University of Khartoum, (2013)

### Conferences and Workshops

- The International Conference on Communication, Control, Computing, and Electronic Engineering, ICCCEE, Khartoum – Sudan, (2017)
- The Third Khartoum Workshop on Advances in Material Science (KWAMS'17), Physics Department – University of Khartoum, Khartoum – Sudan (2017)
- Workshop on Grid-Tie Solar System, Energy Research Center – University of Khartoum, (2017)
- Workshop on Arduino-based Projects, University of Khartoum, (2016)
- The Seventh Graduate Collage Annual Conference on Basic Sciences and Engineering, University of Khartoum, Khartoum – Sudan, (2016)
- The International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering, ICCNEEE, Khartoum – Sudan, (2015)
- Workshop on Entrepreneurship in the first Entrepreneurship Forum in Sudan held by Innovation and Entrepreneurship Community IEC, Al-Faisal Cultural Center, Khartoum – Sudan, (2014)
- The first International Conference on Computing, Electrical and Electronic Engineering held in Khartoum, ICCEEE, Khartoum – Sudan, (2013)
- Workshop on Microcontroller-based Designs, University of Khartoum, (2012)

### Publication

- Mohamed O. Alamin, Essameldin M. Khadir and Sharief F. Babikir, A paper titled "**A Vision-Based Teleoperation Method for a Robotic Arm with 4 Degrees of Freedom**" is submitted to the 7<sup>th</sup> Graduate Conference at University of Khartoum and accepted & Published at the IEEEExplore, (2015)
- Essameldin Khadir and Mohamed Alamin, the Graduation Project thesis '**Human Imitation Robotic Arm**', submitted to the Electrical and Electronic Engineering Department and accepted, University of Khartoum, (2015)