

**JINO JOY**

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**Education**

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| --- | --- | --- |
| 2015-2019 | University of Kerala | Ph.D (Power Electronics and Machine Control) |
| 2012-2014 | Anna University, Chennai | M.E in EEE (Specialized in Power Electronics & Drives) - 80.7% |
| 2008-2012 | M.G University, Kottayam | B.Tech in Electrical & Electronics Engg. - 72.5% |
| 2006-2008 | Kerala State HSE | 12th - 84.2% |
| 2005-2006 | Kerala State Board | SSLC - 80.3% |

**Ph.D Thesis**

Speed Control of permanent magnet brushless DC motor on a H-Bridge inverter topology with sensor-less control

**Achievements**

Patent for the design of “HIGH POWER GEARED ELECTRIC VEHICLE”

Indian Patent Application No. 201841019078 May 22, 2018

Indian Patent No. 344996

Status: PUBLISHED

**Professional Experience**

Guest Lecturer at College of Engineering Trivandrum

**Software Skills**

MATLAB, C Programming, ORCAD, LATEX, ANSYS Maxwell, M.S Office

**International Journal Publications**

1. Jino Joy and S. Ushakumari, “Performance Comparison of a Canonical Switching Cell with SPWM and SVPWM fed Sensorless PMBLDC Motor Drive under Conventional and Fuzzy Logic Controllers", in *Elsevier International Journal of the Franklin Institute*, vol. 354, no. 14, pp. 5996 - 6032, August 2017.

<https://doi.org/10.1016/j.jfranklin.2017.07.043>

2. Jino Joy and S. Ushakumari, “Regenerative Braking Mode Operation of a Three-Phase H-Bridge Inverter fed PMBLDC Motor Generator Drive in an Electric Bike", in *Taylor and Francis Group of International Journal of Electric Power Components and Systems*, vol.46, pp. 2174 - 2188, December 2018.

<https://doi.org/10.1080/15325008.2018.1535529>

3. Jino Joy and S. Ushakumari, “Performance comparison of a bridge-less CSC and H-bridge inverter with SVPWM fed PMBLDC motor drive under fuzzy logic controller”, in *AMSE Journal of Modelling, Measurement and Control,* vol. 91, no. 4, pp. 193 – 201, December 2018.

<https://doi.org/10.18280/mmc_a.910405>

4. Jino Joy and S. Ushakumari, “Performance Comparison of a Sensorless PMBLDC Motor Drive System with Conventional and Fuzzy Logic Controllers", in *Elsevier International Journal of Proceeding Technology*, vol. 25, pp. 643 - 651, April 2016.

<https://doi.org/10.1016/j.protcy.2016.08.156>

**International Conference Publications**

1. Jino Joy and S. Ushakumari, “Performance Comparison of a Sensor-less PMBLDC Motor Drive System with Conventional and Fuzzy Logic Controllers", in *International Conference of Elsevier, Global Colloquium in Recent Advancement and Effectual Researches in Engineering, Science and Technology (RAEREST),* vol. 25, pp. 643 - 651, Kottayam, April 2016.

<https://doi.org/10.1016/j.protcy.2016.08.156>

2. Jino Joy and S. Ushakumari, “Performance Comparison of a Canonical Switching Cell Converter fed Sensor-less PMBLDC Motor Drive with Conventional and Fuzzy Logic Controllers", in *IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT),* Coimbatore, February 2017.

<http://ieeexplore.ieee.org/document/8118037/>

3. Jino Joy and S. Ushakumari, “Energy Harvestation and Effective Utilization by Regenerative Braking and Motoring Modes of Operation in a PMBLDC Drive System using FLC", *in IEEE International Conference on TENSYMP,* Kochi, July 2017.

<http://ieeexplore.ieee.org/document/8069991/>

4. Jino Joy and S. Ushakumari, “Performance Comparison of a Space Vector Pulse Width Modulated Sensor-less PMBLDC Motor Drive with Conventional and Fuzzy Logic Controllers", in *International Conference on Contemporary Topics in Power Engineering and Aiding Technologies (ICCPEAT 2017),* Pondicherry, February 2017.

**National Conference Publication**

1. Jino Joy and S. Ushakumari, “Performance Comparison of a Canonical Switching Cell and SVPWM fed Sensor-less PMBLDC Motor with Conventional and Fuzzy Logic Controllers", in *Proceedings of National Conference on LAMSYS-2016,* SDSC SHAR (ISRO), Sriharikota, June 2016.

**Interests**

Reading books and recent *IEEE* papers, design of power electronic circuits and its practical implementations, driving, playing musical instruments, martial arts and Yoga practice.

**Personal Snippets**

Languages known **:** English, Malayalam & Tamil.

Age & Date Of Birth: 30 years, 04-02-1990