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CURRICULUM VITAE

1. Name Surname : Ömer Cihan Kivanc
Adress : Okan University, Engineering Dept., Akfirat/Istanbul

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2. Date of Birth : 1988

3. Academic Title : Assistant Professor

4. Education : Ph.D.

Degree	Department	University	Year
Bachelor	Electrical Engineering	Istanbul Technical University	2011
Ph.D.	Mechatronics Engineering	Okan University	2016

5. Academic Titles

Title	Discipline	University	Year
Assistant Professor	Mechatronics Engineering	Okan University	2016
Research Assistant	Mechatronics Engineering	Okan University	2011-2015

6. Supervised Master and Ph.D. Thesis

6.1. Title of Master Thesis

6.2. Dissertation Title

7. Publications

7.1. International Refereed Journal Publications

- P. Ali Zada, R.N. Tuncay, S.B. Ozturk, **O. C. Kivanc**, H.A. Mamedov and S.A. Abdullaev, "Parametrical method of low-frequency harmonics suppression in rectifier's output voltage under supply voltage unbalances", *Scientific Journal of Mathematical & Computer Modelling*, vol. 13, 2017.
- **O. C. Kivanc** and S. B. Ozturk, "Sector determination for SVPWM based four-switch three phase voltage source inverter", *IET Journal of Electronics Letters, Accepted Manuscript, Available Online*, 2017.
- **O. C. Kivanc** and S. B. Ozturk, "MATLAB function based approach to FOC of PMSM drive", *International Journal of Simulation Systems, Science & Technology (IJSSST)*, vol. 17, no. 33, 2016.

6.2. International Conference Presentation & Proceedings

- O. Ustun, S. B. Ozturk, **O. C. Kivanc**, P. G. Ali Zade and R. N. Tuncay, "Exciting system selection for brushless synchronous machine," *8th Mediterranean Conference on Transmission, Distribution and Energy Conversion (MEDPOWER 2012)*, pp. 1–6, 2012.
- P. G. Ali-Zade, R. N. Tuncay, S. B. Ozturk, **O. C. Kivanc**, "Quasi-smart construction synchronous machine working with extensive cycling load", *International Conference on Application of Information and Communication Technology and Statistics in Economy and Education (ICAICTSEE – 2012)*, pp. 93–101, UNWE, Sofia, Bulgaria, Oct. 5–6, 2012.
- O. Ustun, M. Cakan, R. N. Tuncay, M. S. Mokukcu, **O. C. Kivanc**, Y. Mutlu and G. Tosun, "Design

and manufacture of electric vehicle powertrain and its cooling system for ITU EV project,” *2014 International Conference on Electrical Machines (ICEM)*, pp. 730–735, 2014.

- G. Tosun, O. Ustun, **O. C. Kivanc**, E. Oguz, O. Ustun and R. N. Tuncay, "Development of high efficiency multi-output flyback converter for industrial applications," *9th International Conference on Electrical and Electronics Engineering (ELECO)*, pp. 1102–1108, 2015.
- **O. C. Kivanc** and S. B. Ozturk, "MATLAB function based approach to FOC of PMSM drive," *IEEE European Modeling Symposium (EMS)*, pp. 96–102, Madrid, Spain, 2015.
- B. Atila, T. E. Mungan and **O. C. Kivanc**, "Different filter approaches and performance analysis of fundamental sensors in autonomous ground vehicles," *24th Signal Processing and Communication Application Conf. (SIU)*, pp. 1605–1608, 2016.
- G. Tosun, **O. C. Kivanc**, O. Ustun, E. Oguz, Y. Mutlu, "Design of a position controlled electric actuator used in fluid control valves," *IEEE International Conf. on Power Electronics and Motion Control*, pp. 551–556, 2016, Varna, Bulgaria.
- O. Ustun, G. Tanc, **O. C. Kivanc**, G. Tosun, "In pursuit of proper BLDC motor design for electric bicycles," *IEEE International Conference on Electrical Machines*, pp. 1808–1815, 2016, Switzerland.
- **O. C. Kivanc**, O. Ustun, G. Tosun, R.N. Tuncay, "On regenerative braking capability of BLDC motor," *Annual Conference of IEEE Industrial Electronics Society*, pp. 1710–1715, 2016, Italy.
- **O. C. Kivanc**, S. B. Ozturk, R. N. Tuncay, E. Kesici and C. Yazı, "Electro-hydraulic power steering system modelling for parameter fault detection based on model reference adaptive frame," *Annual Conference of IEEE Industrial Electronics Society*, pp. 1808–1814, 2016, Italy.

7.3. International Books/Chapters of Books

7.4. National Refereed Journal Publications

7.5. National Conference Presentations & Proceedings

- O. Ustun, R. N. Tuncay, M. S. Mokuçcu, **O. C. Kivanc** and G. Tosun, "Istanbul Technical University full electric battery vehicle project–ITU EV", *7th Automotive Technologies Congress (OTEKON'14)*, Bursa, 2014.
- O. Ustun, R. N. Tuncay, **O. C. Kivanc**, B. Fincan and G. Tosun, "Development and implementation of field weakening algorithm for brushless DC motors", *ELECO 2014*, Bursa, 2014.
- B. Atila, T. E. Mungan and **O. C. Kivanc**, "Iyileştirilmiş RANSAC Tabanlı Isaret Çıkarımı Algoritması Geliştirilmesi," *Türkiye Robotbilim Konferansı, 2016, 2-Nov*, 2016.

7.6 Other Publications

- P. G. Ali-Zada, **O. C. Kivanc**, S. B. Ozturk, R. N. Tuncay, "Çok Kanatlı Yelken Tipi Dairesel Bir Ruzgar Turbini," Turkish Patent Institute (TPE) Pub. No: 2013–G–456408, July 21, 2015.

7. Projects

- TUBITAK-3501-Implementation of Position Sensorless Direct-Drive Permanent Magnet Generator-based Small-Scale Wind Power Generating System for Wide Speed Ranges (Researcher)
- TUBITAK-1002-Very Low Speed Control of Three Phase AC Motor Using Least Mean Square Method With Low Resolution Encoder (Researcher)
- TUBITAK-1002-Design and Implementation of High Maneuverability Autonomous Robot Platform for Industrial and Military Purposes (Principle Investigator)
- Innovative and Sustainable Electric and Hybrid Electric Vehicle Technology Development and Clustering Center (ISTKA)-TR10/14/YEN/0088 (Researcher)

- Intelligent and Connected Vehicle Technologies Development and Clustering Center (ISTKA)-TR10/15/YNK/0022 (Researcher)
- KOSGEB-Design and Implementation of E-Bike Power Train (Researcher, Law No. 4691 on Technology Development Zones)
- KOSGEB-Design and Implementation of Electric Machine Driver (Researcher, Law No. 4691 on Technology Development Zones)
- Linear BLDC Motor and Driver Design for a Ramp System Project (Researcher, Law No. 4691 on Technology Development Zones)
- Design and Development of Electric Power Train for Solar Car Project (Researcher-Law No. 4691 on Technology Development Zones)
- Development of Electric Power Train for Hub-Motor Electric Vehicle Project (Researcher-Law No. 4691 on Technology Development Zones)
- High Efficiency (IE4) LSIPMSM Design Project (Researcher-Law No. 4691 on Technology Development Zones)
- Design of a Position Controlled Electric Actuator Used in Fluid Control Valves Project (Researcher-Law No. 4691 on Technology Development Zones)
- Smart Pump Selection Algorithm Development Based on WEB Project (Researcher-Law No. 4691 on Technology Development Zones)
- Three-Level UPS Control Software Development Project (Researcher, Law No. 4691 on Technology Development Zones)

9.Administrative Tasks

- Intelligent and Connected Vehicle Technologies Development and Clustering Center (ISTKA)-TR10/15/YNK/0022 (Okan University, Electrical Engineer)

10.Academic/Professional Membership

- IEEE, The Institute of Electrical and Electronics Engineers
- UCTEA, The Chamber of Electrical Engineers

11.Awards

12.Lectures

Academic Year	Semester	Lectures	Hours		Number of Student
			T	L	
2016-2017	Spring	Electrical Distribution Systems	3	-	25
2016-2017	Spring	High Voltage Techniques	3	-	25
2016-2017	Fall	Energy Laboratory	-	4	6
2016-2017	Fall	Control Systems	3	1	20