1. **Name:** Babak Parkhideh **Academic Rank:** Assistant Professor

2. **Degrees:**

BSCS	University of Tehran, Iran	2003
MS	RWTH-Aachen University, Germany	2006
PhD	North Carolina State University	2012

3. **UNC Charlotte (number of years = 4)**
   - Assistant Professor: 2012 - present

4. **Other related experience:**
   - Post-doctoral Fellow, North Carolina Stat eUniversity, 2012
   - Visiting Research Scholar, ABB Corporate Research Center, 2010-2011
   - Summer Graduate Intern, Siemens Mining Group, 2008

5. **Certifications or professional registrations**:

6. **Current membership in professional organizations**
   - IEEE (Member), IEEE Power Electronics Society (2007-present)

7. **Honors and awards:**
   - Best oral presentation award in the IEEE Energy Conversion Congress and Exhibition, ECCE'14, Pittsburg, 2014.
   - Best paper award in the 3rd IEEE International Conference on Smart Grid Communications, IEEE SmartGridComm, Taiwan, 2012.
   - Recipient of the third place award in NC State Graduate Research Symposium, 2012.
   - Recipient of American Public Power Association (APPA) fellowship, 2011.
   - Recipient of the first place award in the IEEE International Power Electronics Society GOLD logo contest, 2011.

8. **Institutional and professional service in the last five years:**
   - Member of Electronics and Devices Teaching Task Group, 2012-present
   - University College Faculty Council member rep. COE, 2013-present
   - UNC Charlotte Department Graduate Committee, 2013-2015.
   - Director of PV Integration Laboratory at UNC-Charlotte, 2015-present

9. **Principal publications of last five years:**
   - Nima Yousefpoor, Babak Parkhideh, Ali Azidehak, Sungmin Kim, and Subhashish Bhattacharya, "Control of high frequency isolated modular converter," *IEEE Transactions on Industry Applications*, Vol. 51, Issue: 6, Nov/Dec, 2015.
   - Nima Yousefpoor, Babak Parkhideh, Ali Azidehak, Subhashish Bhattacharya, and Bruce Fardanesh, "Modular transformer converter based convertible static transmission controller for transmission grid management," *IEEE Transactions on Power Electronics*, Vol. 29, Issue: 12, August 2014.
   - Saman Babaei, Babak Parkhideh, Mukul Chandorkar, Bruce Fardanesh, and Subhashish Bhattacharya, "Dual angle control for line-frequency-switched static synchronous compensators under system faults," *IEEE Transactions on Power Electronics*, Vol. 29, Issue: 6, June, 2014.

- Babak Parkhideh, Hesam Mirzaee, and Subhashish Bhattacharya, "Supplementary energy storage and hybrid front end converters for high power mobile mining equipment," *IEEE Transactions on Industry Applications*, Vol. 49, Issue: 4, July/August, 2013.
- Hongrae Kim, Babak Parkhideh, Tim Bongers, and Heng Gao, "Reconfigurable solar converter: a single-stage power conversion PV/battery system," *IEEE Transactions on Power Electronics*, Vol. 28, Issue: 8, August, 2013.
- Babak Parkhideh and Subhashish Bhattacharya, "Vector-controlled voltage-source-converter-based transmission under grid disturbances," *IEEE Transactions on Power Electronics*, Vol. 28, Issue: 2, February, 2013.
- Mehrdad Biglarbegian, Neel Shah, Iman Mazhari, and Babak Parkhideh, "Temperature rise analysis of high power density/efficient printed circuit board embedded inductor," in Proc. *3rd IEEE Workshop on Wide Bandgap Power Devices and Applications*, 2015.
- Hamidreza Jafarian, Iman Mazhari, Babak Parkhideh, Saurabh Trivedi, Deepak Somayajula, Robert Cox, and Shibashis Bhowmik, "Design and implementation of distributed control architecture of an AC-stacked PV inverter," *in Proc. IEEE Energy Conversion Congress and Exhibition*, ECCE'15, 2015.
- **(Best Paper)** Iman Mazhari, Lotfi Beghou, Shiba Bhowmik, Johan Enslin, and Babak Parkhideh, "Locking frequency band exposure method for islanding detection and prevention in distributed generation," *in Proc. IEEE Energy Conversion Congress and Exhibition*, ECCE'14, 2014.
- **(Best Paper)** Islam-Safak Bayram, George Michailidis, Michael Devetkiotis, and Babak Parkhideh, "Strategies for competing energy storage technologies for in DC fast charging stations," *in Proc. IEEE SmartGridComm Symposium*, 2012.

10. Professional development activities in the last five years:

- Workshop on Distributed Energy Technologies, GridEd project, host and tutor, August 2015.
- Session Chair, three sessions, IEEE Energy Conversion Congress and Exhibition, ECCE, Montreal, Canada, 2015.
- Topic Chair, Control and Applications of Power Converters, IEEE Energy Conversion Congress and Exhibition, ECCE'15, Montreal, 2015.
- Session Chair, IEEE Applied Power Electronics Conference, APEC'15, Charlotte, 2015.
- Reviewer for National Science Foundation STTR program, 2014.