

# CURRICULUM VITAE

**Name Surname:** BURAK AKIN

**Birth of Date:** 21.03.1977

**Academic Background:**



Degree	Faculty	University	Year
Graduate	Electrical Engineering	Yildiz Technical University	1998
Undergraduate	Pre-MBA	Anglo World- England	1999
MSc.	Electrical Engineering	Yildiz Technical University	2001
PhD.	Electrical Engineering	Yildiz Technical University	2008

**MSc. Subject:**

“Investigation of harmonic current and voltage effects on power factor fed by non-sinusoidal network with non-linear loads”, Yrd. Doç Dr. Gülderen YILDIRMAZ,

**PhD. Subject:**

“A New Soft-Switched Single-Phase Power Factor Correction Circuit Development and Implementation”, Prof. Dr. Hacı BODUR,

**Position and Awards:**

Title	Place	Year
Res. Assist.	Yildiz Technical University	1999-2008
Lieutenant	Military Duty	2008-2009
Res. Assist. Dr.	Yildiz Technical University	2009- 2013
Referee	IEEE Power Electronics Society	2011-2013
Referee	International Journal of Renewable Energy Research (IJRER)	2011-2013

- Electrical Engineering WEB Page Design , (2001-2003)
- DSK6713 DSP Set Workshop, Sweden, Chalmers University, 2004
- Electrical Engineering Internship Commissioner, (2007-2009)
- Tübitak Encouragement Award 2011
- Electrical Eng. Internship Commissioner Quality and Accreditation (2010-2013)
- Power Electronics and Electrical Machines Lab. Executive (2009-2013)
- Istanbul Justice Commission Expertise (2004- 2013)

### **Education and Training Activities:**

- Electrical Machines Industrial Applications
- Electrical Machines Control
- Electrical Machines Modern Control Technics
- Power Electronics I - II
- Power Electronics Industrial Applications I - II
- Alternative Current Machines Vector Control
- Control Techniques

## **ARTICLES AND CONFERENCES**

### **A. Articles Published in International Refereed Journals:**

1. AKIN, B.; BODUR, H.; , "A New Single-Phase Soft-Switching Power Factor Correction Converter," Power Electronics, IEEE Transactions on , vol.26, no.2, pp.436-443, Feb. 2011.
2. AKIN, B., "Active Solar Water Heater System With Solar Powered Boiler", Energy Conversion and Management, submission no: ECM-D-12-01385., 2012

### **B. Presented at International Conferences and Published in the Proceedings:**

1. YILDIRMAZ, G., AKIN, B., OBDAN, H., "Virtual Laboratory in Higher Education", International Conference on Higher Education Innovation, Kiev, 13-16 Mayıs 2003, pp. 199-200.
2. AKIN, B., "Application of a Remote Lab: Single Phase PFC circuit", IMCL 2006, Amman, 19-21 Nisan 2006, vol 2, no:2, pp. 1-2.

3. AKIN, B., "Investigation of The Effects of Current and Voltage Harmonics on Power Factor in Three Phase Nonlinear Load Feed by Nonlinear Line", 3.International Conference on "Technical and Physical Problems in Power Engineering" (TPE-2006), Ankara 29-31 May 2006, pp. 931-934.
4. AKIN, B., "Technical and Physical Problems in Single Phase AC-DC Power Factor Correction Boost Converters", 3.International Conference on "Technical and Physical Problems in Power Engineering" (TPE-2006), Ankara 29-31 May 2006, pp. 969-972.
5. AKIN, B., "A New Active Snubber Circuit For PFC Converter", International Conference on Control, Communication and Power Engineering 2010 (CCPE 2010), India 28 July 2010, pp. 82-86.
6. AKIN B., AKSOY İ., Active Snubber Components Optimization for ZVT-ZCT Soft Switched PFC Converter, 2011 International Conference on Consumer Electronics, Communications and Networks (CECNet), China 2011, Issue 6, pp. 4711-4714.
7. AKIN B., "Comparison Of Conventional And Interleaved PFC Boost Converters For Fast And Efficient Charge Of Li-ion Batteries Used in Electrical Cars", ICPES 2012, Hong Kong, Vol. 13, pp. 499-504.
8. AKIN B., "Solar Water Heater With Solar Powered Boiler", European Workshop on Renewable Energy System, EWRES 2012, Antalya, pp. 1-6.
9. AKIN B., "Solar Power Charger With Universal USB Output", IEEE 5TH India International Conference on Power Electronics, IICPE2012, India, Vol. 1, Issue 1, pp. 1-4.

**C. Articles Published in National Refereed Journals:**

1. BODUR H., AKSOY İ., AKIN B., "Soft Switching Techniques in DC-DC converters", KAYNAK Elektrik, Haziran 2002, Sayı 158, Sayfa 100-108.
2. BODUR H., AKSOY İ., AKIN, B., "Switched-mode resonant converters", KAYNAK Elektrik, Ağustos 2002, Sayı 160, Sayfa 104-112.
3. AKIN B., "Single-Phase Alternating Current-Direct Current Converter Unity Power Factor" 3E ELECTROTECH Dergisi, Mart 2008, sayı 165, sayfa 194-202.

4. AKIN B., “Single Phase converters Power Factor Comparison for Fast and Efficient Charging for Li-ion batteries used in electric cars ”, EMO BİLİMSEL DERGİ, Aralık 2012, cilt 2, sayı 4.

#### **D. Presented at National Conferences and Published in the Proceedings:**

1. AKIN B., “Fast And Efficient Single Phase Power Factor Charger for Dual Boost Converter Used in Li-ion Batteries in Electric Cars”, ELEKTRİK-ELEKTRONİK- BİLGİSAYAR SEMPOZYUMU, Elazığ 2011, sayfa 163-167.

#### **E. Projects**

- 1 BODUR H., BAKAN A.F., OBDAN H., AKIN B.**(Researcher)**, AKSOY İ., “A New Soft Switching Circuit Design for Solar and Wind Energy Systems Used for PWM DC-DC and DC-AC Converters” BAPK Destekli 24-04-02-06 nolu Proje, 26.04.2006
- 2 BODUR H., BAKAN A.F., YILDIRMAZ G., OBDAN H., AKIN B.**(Researcher)**, “A New Soft-Switched Single-Phase Power Factor Correction Circuit Development and Implementation” BAPK Destekli 25-04-02-02 nolu Proje, 29.01.2009
- 3 AKIN B.**(Executive)**, AKSOY İ., AKBOY E., “Implementation of 3 kW PFC and Soft-Switched Induction Oven” BAPK Destekli 2011-04-02-GEP01 nolu proje, devam ediyor.