

Curriculum Vitae

Name: Andreas Michaelides

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Personal: **Birthday:** 07/07/1960
Marital status: Married
(optional)

Education: **Schools:**
Goethe Oberschule, Leipzig Germany
American Academy, Larnaca Cyprus
University:
Technische Hochschule Ilmenau Thüringen Germany

Graduate work:
(Degree, Date received)
MS, Power Engineering, May 1985
PhD, Power Engineering, Dec 1988

Positions Held:
(reverse chronological order)
Ranked as Assistant Professor
1990 - Employment at Intercollege Larnaca, computer engineering program coordinator
2008 - University of Nicosia, designing the electric power processing courses and establishing the appropriate experiments and laboratory setup/facilities for respective sessions in the electrical engineering program for the 'Specialization Area in Electric Power Processing'.
2018 - Head of the Engineering Department (two years).
2020 - Program Coordinator of the Electrical Engineering Program

Areas of Concentration/ Research Interests:

- 1 Instant shooting result targeting system.
'Sniper-System' Webpage: 'www.sniper-system.com'
- 2 Integrated Inductive-Capacitive Component.
- 3 Wireless digital signal transmission.
- 4 Electric Machines Control.
- 5 Solid State Transformers.

Professional Associations:

Member:

ETEK (The Cyprus Scientific and Technical Chamber)

IEEE (The Institute of Electrical and Electronics Engineers, USA)

Awards/Distinctions:

(For teaching, research, service)

- 1991 Lefkaritis Award for Research

Languages:

(Fluent Proficient Competent)

English	Fluent
German	Fluent
Greek	Proficient
Russian	Competent

Research:

- 2018 Construction of an instant shooting result Targeting System 'Sniper System'. in collaboration with the National Guard of Cyprus.
Webpage: 'www.sniper-system.com'.
- 2010 Construction/winding from aluminium/polyester foils of an integrated inductive-capacitive component for absorbing harmonic modulations
- 1991 Transmission of information signals through the power grid.
- 1992 Design and construction of a Robotic Arm to assist lectures on mechanics, statics and microprocessor controlled systems.
- 1993 Wireless door phones for domestic application.

Doctoral Dissertation:

Power factor correction and quality improvement of distorted voltage in the grid by absorbing harmonic modulations with passive filters.
Technische Hochschule Ilmenau (Technical University of Ilmenau),
Thüringen - Germany December 1988

Written Material:

Operational manual for the instant targeting system (in greek for the National Guard).

Presentation of Research Results

Presentations of the targeting system in front of high ranking military committee in the presence of the General of the National Guard on the shooting ground in full functional mode. 'www.sniper-system.com'

Journals and Conferences

Journal Articles

- [J1]. Satyamsetti V.K., **Michaelides A.**, Hadjiantonis A., Nicolaou T.
“A Novel Simple Inductor-Controlled VAR Compensator”
A Transaction of the IEEE journal on Circuits and Systems II: Express Briefs
Year: 2022
<https://ieeexplore.ieee.org/document/9495950>
- [J2]. **Michaelides A.** and Nicolaou T. “Constructing an Integrated Inductive-Capacitive Component to Filter Harmonic Modulations” A Transaction of the IEEE journal for power delivery. Year: 2020
<https://ieeexplore.ieee.org/document/9184123>

Conference Proceedings

- [C1] **Michaelides A.**, Hanna M., Hadjiantonis A., Satyamsetti V.K., “Power Transfer Across the Iron Core Gap”, The 17th International IEEE Conference on Engineering of Modern Electric Systems EMES, Oradea, Romania 9-10 June 2023
<https://ieeexplore.ieee.org/document/10171688>
- [C2] **Michaelides A.**, Nicolaou T., “A Variable Inductor-Capacitor for Reactive Power Compensation”, The 13th International IEEE Symposium on Advanced Topics in Electrical Engineering ATEE, Bucharest, Romania, 23 -25 March 2023
<https://ieeexplore.ieee.org/document/10108301>
- [C3] Satyamsetti V.K., Hadjiantonis A., **Michaelides A.**, “Active Compensation of Reactive Power via Statcom Analysis” The 12th International IET Mediterranean Power Conference MEDPOWER, Paphos, Cyprus 9 -12 November, 2020
<https://ieeexplore.ieee.org/document/9543774>

- [C4] **Michaelides A.**, Nicolaou T., Afxentiou D., Satyamsetti V.K., “An Adjustable Integrated Inductive Capacitive Component to Compensate Reactive Power”, The 15th International IEEE Conference on Engineering of Modern Electric Systems EMES, Oradea, Romania 13-14 June 2019
<https://ieeexplore.ieee.org/document/8795187>
- [C5] Satyamsetti V.K., **Michaelides A.**, Hadjiantonis A., Polycarpou A.C., “Design and Analysis of a High-Frequency 3-Phase Distributed Static Compensator (HFDSC)”, The 44th Annual Conference IECON of the IEEE Industrial Electronics Society, Washington USA, 21-23 October 2018
<https://ieeexplore.ieee.org/document/8591370>
- [C6] Satyamsetti V.K., **Michaelides A.**, Hadjiantonis A., Polycarpou A.C., Nicolaou T., “Design and Analysis of a High-Frequency 3-Phase Distributed Static Compensator (HFDSC)”, The 53rd IEEE Power and Energy Society Conference UPEC, Glasgow, Scotland, 4 -7 September 2018.
<https://ieeexplore.ieee.org/document/8541954>
- [C7] **Michaelides A.**, Nicolaou T., “Controlling Excitation of Synchronous Motors to Provide Constant Reactive Power for Varying Load”, The 5th International IEEE Energy Conference ENCON, Limassol, Cyprus 3 -7 June 2018.
<https://ieeexplore.ieee.org/document/8398850>
- [C8] **Michaelides A.**, Nicolaou T., “Starting and Running the Induction Motor with a Variable Capacitor”, The 14th International IEEE Conference on Engineering of Modern Electric Systems EMES, Oradea, Romania 1-2 June 2017
<https://ieeexplore.ieee.org/document/7980388>
- [C9] **Michaelides A.**, Nicolaou T., “Electrical Equivalent of Wound Aluminum Foils”, The 10th International IEEE Symposium on Advanced Topics in Electrical Engineering ATEE, Bucharest, Romania, 23 -25 March 2017
<https://ieeexplore.ieee.org/document/7905151>
- [C10] **Michaelides A.**, “Integrated Inductive-Capacitive Component used as a Filter for Harmonic Modulations in the Grid”. The 13th International IEEE Conference on Engineering of Modern Electric Systems EMES, Oradea, Romania 12th, June 2015
<https://ieeexplore.ieee.org/document/7158389>

Other Activities:

Reviewed five conference submissions for medpower2012@diee.unica.it conference.

Reviewed four conference submissions for medpower2020.org/ conference.

Providing the targeting system to army units to calibrate rifle aiming facilities ahead of

shooting competitions.

Regular shooting exercises with the National Guard, most recent in May 2018 and September 2017.

Experience:

Administrative (projects managed, committees served etc)

Coordinator of the Computer Engineering program at Intercollege Larnaca 1994-2008.

Head of Engineering Department, University of Nicosia from April 2018 – April 2020

Program Coordinator of the Electrical Engineering BSc. Program since April 2020

Advisory: (students supervised, theses directed etc)

Personal Advisor to students, University of Nicosia

Supervising one PhD student in the topic “Solid State Transformers”

Supervisor of senior year projects (58 projects since 2008).

Teaching (seminars designed, courses taught):

Digital Systems

Signals and Systems

Electronics

Network Analysis

Mathematics

Physics

Electric Machines

Power System Analysis

Power Generation-Transmission-Distribution

Power System Protection

Power Electronics