

- **Senior Design Project Mentor**
  - ▶ Has worked closely with teams of students to help them to come up with innovative senior design project ideas.
  - ▶ Has provided support and technical expertise for students to implement their senior design project successfully.
- **Engineering Curriculum Development, extensive experience in Engineering Curriculum design**
  - ▶ Has designed the course material and has developed lab activities for multiple computer engineering courses to be offered on-site or online
- **Research and development, skilled in pioneering complex R&D initiatives and driving scientific advancement**
  - ▶ Co-authored 8 articles published in well-regarded journals and invited presenter at several global industry conferences.
  - ▶ Earned accolades from multiple engineering/high-tech firms for leadership and innovation of diverse design projects.
  - ▶ Facilitated capture of major 3-year grant; led project teams to deliver 5 published articles in less than 2 years.

## EDUCATION

**PhD**, Electrical Engineering, Florida International University, Miami, FL, 1998

**PhD**, Electrical Engineering, University of Science & Technology of Lille Flandres Artois, Lille, France, 1989

**BS**, Applied Physics, Tehran University, Tehran, Iran, 1983

## PROFESSIONAL EXPERIENCE

*Lecturer*, Florida International University, Miami, FL (JAN. 2015 to Present)

Courses taught:

TCN 4431 – Principles of Computer Network Management

TCN 4211 – Telecommunication Networks

EEL 4804 – Intro. To Reverse Malware Engineering

EIN 3235 – Evaluation of Engineering Data

EEL 4709C - Computer Design

EEL 4740 – Embedded Computing Systems

EEL 4746 – Microcomputers I

EEL 4747 – RISC

EEL 6758 – Engineering Design of Microprocessor Based Operating System

EEL 4921C – Senior Design II

*Adjunct professor*, Florida International University, Miami, FL (JAN. 2013 to DEC 2015)

Courses taught:

EEL 4740 – Embedded Computing Systems

EEL 4746 – Microcomputers I

EEL 4515- Advanced Communication systems

*Chair*, School of Electronics, ITT TECHNICAL INSTITUTE, Fort Lauderdale, FL (2006 to 2015)

- Member of ITT Technical Institute National Curriculum Committee, involved in curriculum design and improvement.
- Served as expert for students, faculty and advisory committees regarding academic curriculum and technical information.
- Developed and implemented student retention strategies.
- Screened, interviewed and recommended for hiring instructors. Oriented new faculty, observed and advised instructors.
- Assisted with faculty scheduling, and professional development, student problem resolution, orientation and advising.

Faculty, ITT TECHNICAL INSTITUTE, Fort Lauderdale, FL (2000 to 2006)

- Manage instruction of undergraduate courses, lab startups/operations, and oversight of diverse senior design projects.
- Ensure institutional accreditation and lead initiatives to improve program quality and enrollment.
- Design projects include Embedded system Design. Courses taught include Data communications and Networking, Embedded System Design, C Programming, C++ Programming, Microprocessors, Digital Electronics, Digital Communications, Circuit Analysis/Design, and Process Control.

*Administrator, Visiting Faculty* ('98-'00), FLORIDA INTERNATIONAL UNIVERSITY, Miami, FL (1992 to 2000)

- Managed varied nanoparticle R&D projects, lab operations, research staff, and documentation/presentation of findings.

- Key in securing substantial 3-year grant and expanding program; authored multiple published articles.
- Responsible for operation and maintenance of complex, heavy machinery and controlled systems.

*Research Associate* ('92-'98)

- Expedited nanotechnology R&D projects; pioneered selective area deposition of metal films, developed method allowing for real-time cluster measurement, and designed computer simulation of large cluster formation mechanism.
- Taught undergraduate electrical engineering and electronics courses.

*Research Scientist*, ATOMIC ENERGY ORGANIZATION LASER RESEARCH CENTER, Tehran, Iran (1989 to 1991)

- Defined technical requirements and developed/directed test, R&D, and project labs. Trained and led team of 12 technicians.
- Facilitated optoelectronic device technology transfer contract with Semiconductor Institute in Beijing, China.

*Assistant Professor*, TEHRAN UNIVERSITY, Tehran, Iran (1989 to 1991)

- Co-led optoelectronic device R&D project; won funding, established lab, oversaw technical team, and authored published article.
- Developed curriculum and managed instruction of graduate/undergraduate courses; graduate thesis advisor.

*Graduate Research Assistant*, Microwave & Semiconductor Center, Lille, France (1985 to 1989)

*Engineer*, Ministry of Energy, Tehran, Iran (1983-1985)

## CERTIFICATIONS

- Certified Professional Engineer (PE)
- CompTIA Network+ Certified Professional
- Allen-Bradley SLC 500 Advanced Training Certificate

## PUBLICATIONS

11. Nanophase films deposited from a high-rate, nanoparticle beam.

F. K. Urban III, A. Hosseini-Tehrani, P. Griffiths, A. Khabari, Y. W. Kim, and I. Petrov  
J. Vac. Sci. Tech. B 20, 2002, 995

10. Irreversible magnetization in nickel nanoparticles.

F. Zuo, F. K. Urban III, A. Khabari, P. Griffiths, A. Hosseini-Tehrani  
Journal of Magnetism Magnetic Materials 225, 337 (2001)

9. Interesting optical properties of films composed of very small grains formed from a high rate nanoparticle beam.

F. K. Urban III, A. Hosseini-Tehrani, P. Griffiths, A. Khabari  
Thin Solid Films, vol. 355-356, pp513, 1999

8. Modeling of large cluster synthesis.

A. Hosseini-Tehrani, F. K. Urban III  
Proceedings of AVS 46<sup>th</sup> International Symposium, Seattle, Washington, October 25-29 1999

7. Deposition of thin films using beam of nanoparticles

F. K. Urban III, A. Khabari, A. Hosseini-Tehrani, P. Griffiths, G. Fernandez  
J. Vac. Sci. Tech. A Jul/Aug 1996

6. Recent developments in ionized cluster beam thin film deposition.

A. Cox, J.J. Nainapampil, M. F. Tabet, A. Hosseini-Tehrani, F. K. Urban III  
Thin solid Films, 270 pp637(1995)

5. selective area deposition of metal films by the ionized cluster beam method.

F. K. Urban III, A. Hosseini-Tehrani, Susan W. Feng, J.J. Nainapampil  
Appl. Phys. Lett. 62(24), 14 June 1993

4. Study and realization of fiber optic photoreceiver for 1.3um – 1.55 um wavelengths, Ph.D. dissertation, University of science and Technology of Lille Flandres Artois May 1989

3. Monolithic integrated photoreceiver for 1.3 – 1.55 um wavelengths:

Association of shottky photodiode and a field effect transistor on GaInP/GaInAs heteroepitaxy,  
A. Hosseini-Tehrani, M. Razeghi, J.P. Vilcot, D. Decoster  
J. Appl. Phys. 64(4) 15 August 1988

2. Monolithic integration of a shottky photodiode and a FET using GaInP/GaInAs strained material.

A. Razeghi, A. hosseini-Tehrani, J.P. Vilcot, D. Decoster

1. Design and fabrication of 1.3 – 1.55  $\mu\text{m}$  laser diode.

D.E.A. Thesis, University of science and Technology of Lille Flandres Artois September 1986