

Curriculum Vitae Mehmet Can

Personal details

Name : Mehmet
Surname : Can
Gender : Male
Addressee : Hoek van het IJ 3
Postal code, city : 8223 BH, Lelystad
City of Birth : Istanbul (Turkey)
Date of Birth : Augustus 9, 1983
Nationalities : Turkish and Dutch
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Education

2007-2010 Master Microelectronics, University of Technology Delft (Master of Science diploma)
2007-2008 Pre-Master Microelectronics, University of Technology Delft
2003-2007 Bachelor Electrical Engineering, Hogeschool van Amsterdam (Bachelor diploma)
2003-2004 Cum Laude Propedeuse Bachelor Electrical Engineering, Hogeschool van Amsterdam
2001-2003 HAVO, ISG Arcus, Lelystad
1997-2001 MAVO, Norbertus MAVO, Tilburg
1992-1997 Primary Education, Het Driespan, Enkhuizen
1989-1992 Primary Education, Binbaşı Necatibey İlköğretim Okulu, Istanbul, Turkey

Courses

2015-2016 Analog Electronics Design, Anton Montagne, High Tech Institute
Aspects of the course:

- Analysis and design of an amplifier using nullor model.
- Translating the specifications like bandwidth, noise, and power into boundary conditions, and identifying the show stoppers and fundamental limits.
- Presentation of the results using SLiCAP and MATLAB.

2015-2016 Foundation Course Didactic Competence (FCDC). Certificate achieved.
Modules:

- Development Education Program; designing curriculum
- Conduction Education and Lecturing
- Professional Lecturer and Coaching
- Examination and Grading

Working experience

Period : August 2013 to present
Function : Lecturer Bachelor Electrical Engineering
Organization : De Haagse Hogeschool in Delft
Responsibilities :

- Providing theoretical and practical lessons for the courses in electronics, control systems, and mathematics
 - Assist students in school projects, internship, and graduation projects.
 - Developing, organizing, discussing and reviewing exams.
 - Developing and organization of the core electronics program for electrical engineering department.
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Period : October 2011 to October 2012
Function : Electrical Engineer
Organization : MAPPER Lithography in Delft
Responsibilities : Design of an electron beam current measurement system for the control of the electron dose for pattern writing on a wafer.

- Literature survey and documentation for electron beam current measurement.
 - Analyzing the situation and identify what parts are needed for this measurement.
 - Investigate which type of sensor, amplifier, cabling, and DAQ card is best applicable for this measurement.
 - Mapping electrical and mechanical aspects of the measurement.
 - Research and design of electrical circuits, mechanical design of the sensor and wiring for non-magnetic and vacuum-compatible environment in the lithography machine.
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Period : October 2010 to July 2011
Function : Lecturer Bachelor Electrical Engineering
Organization : Hogeschool van Amsterdam
Responsibilities :

- Providing theoretical and practical lessons for the courses in electronics, electric circuits, control systems, and mathematics.
 - Assist students after their propedeuse of bachelor phase to continue with the Master.
 - Developing, organizing, discussing, and reviewing exams and quizzes.
 - Organizing additional workshops for students
 - Developing and organization of the core program for first year electrical engineering students.
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Period : September 2005 - present
Function : Lecturer and study coach
Organization : Can Bijles
Responsibilities :

- Provide tutoring in the courses mathematics, physics, and chemistry at HAVO and VWO students.
- Provide tutoring in the courses electronics, electric circuits, control systems, digital signal processing, calculus, linear algebra, and differential equations for college and university students.
- Assist in making and maintaining a study program.
- Advising on career choices.
- Guidance for students that would like move from Bachelor's to Master's.
- Instructive courses for smart and efficient learning.
- Assisting people from industry.

Website : <http://www.canbijles.nl>

Graduation works and internships

Period : March 2009 to February 2010
Function : Graduate, Master of Science
Organization : NIKHEF (National Institute for Subatomic Physics), Amsterdam.
Responsibilities :

- Characterization of silicon X-ray sensors.
 - Research on the effect of cutting using Deep Reactive Ion Etching (DRIE).
 - Analyzing new guard ring structure to reduce the leakage current of X-ray sensors
 - Comparison of X-ray sensors with guard ring with conventional silicon X-ray sensors
 - Mapping the difference between DRIE process and standard blade dicing technique on the leakage current of the X-ray sensors.
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Period : August 2009 to December 2009
Function : Intern, Master of Science
Organization : NXP Semiconductors Nijmegen, Department Quality Analytical Services
Responsibilities :

- Investigation of the effect of the IC package on the ESD stress.
 - Analyzing the measurement data and the measurement errors in ESD stress measurements.
 - Research on the Charged Device Model (CDM) conditions for ESD (Electro Static Discharge) protections made under CMOS technology.
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Period : September 2007 to July 2008
Function : Graduate, Bachelor
Organization : University of Technology Delft, Department Nanoelectronics and Neural Networks
Responsibilities :

- Literature survey on the cause of 1/f noise behavior in a tunnel diode.
 - Examination of the 1/f noise models of McWorther and Hooge
 - Analyze which model fits the best for the 1/f noise behavior of a tunnel diode.
 - Comparison of the physical structure of the tunnel diode and MOSFET.
 - Use of 1/f noise data of a MOSFET for the 1/f noise of a tunnel diode.
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Period : August 2005 to January 2006
Function : Intern, Bachelor
Organization : Philips Semiconductors Nijmegen, Department Device Engineering and Characterization
Responsibilities :

- Literature survey on the ESD (Electro Static Discharge) behavior.
 - Measuring ESD protections under CMOS technology and A-BCD3 technology.
 - Performing ESD tests using Human Body Model, Charged Device Model, and ESD-Gun model.
 - Comparing the measurement results of different types of ESD and validation the differences and similarities.
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Knowledge

Languages

	Written	Verbal
• Turkish :	Excellent	Excellent
• Dutch :	Good	Good
• English :	Good	Good

Electronics and Semiconductor Physics

- Noise Analysis and Measurements
- Physics of (C)MOS, BJT, and Diodes
- IC fabrication and Technology
- Electrostatic Discharge (ESD) Phenomenon, ESD Protection Circuits and Devices
- Photonic Devices
- Quantum Mechanics and Basics of Quantum Electrodynamics
- Analog Filter Design Using Special Responses (Bessel, Butterworth, Chebyshev, Cauer)

Mathematics

- Euler-Lagrange Equations
- Lagrangian and Hamiltonian Mechanics
- Linear and Non-linear Differential Equations
- Complex Function Theory
- Fourier and Laplace Analysis and Transformation

Control Systems

- Lagrangian, Hamiltonian and Euler-Lagrange Equations
- Bond Graphs Method
- Stability, Routh-Hurwitz Method, Nyquist Plot, Bode Plot, Nichols Chart
- Non-Linear Differential Equations
- PID, Lead, Lag, and Lead-Lag Compensators using MATLAB
- State-Variable Feedback Design
- Analog and Digital Controller Design

Software

- MATLAB and Maple
- Windows Office programs: Excel, Word, PowerPoint, and Outlook
- Computer use: Windows and basics of Linux
- Basic knowledge in C.

Personal characterize

- Collegially
- Mathematically established
- Passion for physics and mathematics
- Driven to search further and deeper to set the connection between theory and practice
- Analytic mind-set and approach
- Organized
- Flexible