

CURRICULUM VITAE

Arman Sehat Nia

Date of birth: August 23, 1986

Hometown: Iran, West Azerbaijan Province, Urmia City

Marital status: Single

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SCIENTIFIC BIOGRAPHY

DIPLOMAS:

1. **Bachelor degree:** Electrical-Control Engineering, 2010, Tabriz University, Tabriz, Iran
2. **Master science:** Mechatronic-Control Engineering, 2013, Tabriz University, Tabriz, Iran
3. **PhD Student:** Electrical-Control Engineering, 2016, Tabriz University, Tabriz, Iran

THESIS:

1. **Bachelor degree:** The application of solar-cells in hybrid cars and control of tracking maximum power point (MPPT) in solar-cells.
2. **Master degree:** Design, simulation and control of Polymeras Chain Reaction (PCR) microsystem.

PROFICIENCY OF LANGUAGES:

1. **English** (very good)
2. **Turkish** (fluently)
3. **Azerbaijani** (fluently)
4. **Persian** (fluently)

OPERATING ACTIVITIES:

1. Continued cooperation with Mechatronic-Lab in Tabriz University.

2. Supervisor of Technical-Informatics and Responsible of Education of UAST University in Iran.
3. Cooperation in engineering projects (Manufacturing Lab Devices) with Educational Research Laboratory of “*Zist Fan Gostar Espoota*” in Iran. (supervisor: Dr. Ramin Manaffar R.manaffar@urmia.ac.ir)
4. Practical courses of PLC systems (siemens) in ‘Technical and Vocational Organization of Iran’.

PRACTICAL PROJECTS:

1. Project of “*Manufacturing a Laboratory Device with Multi-axial movement of Samples in laser environment*” for University of Medical Sciences, Tabriz.
2. Project of “*Manufacturing a Robotic Arm of Quadrator in three-axis remote control*” for Mechatronic-Lab in Tabriz University.
3. A interdisciplinary Project, “*Manufacturing a genetic lab device, DGGE, Electrophoresis*” in association with Artemia and Aquatic Animals Research Institute of **Urmia University**, under supervision of **Dr. Ramin Manaffar**.

PROFESSIONAL PROGRAMING SOFTWARES:

- | | |
|----------------------------|---------------------------|
| 1. MATLAB (simulink-Mfile) | 4. Proteus Circuit Design |
| 2. C++ | 5. PLC-SIMATIC Step7 |
| 3. CodeVision-AVR | 6. ANSYS |

FIELD OF INTERESTS:

- Hybrid-Switching Control System/Stability/Modeling & Control
- Robust Control Systems
- Fault Diagnosis
- Time-Delay Control Systems
- Bio-Engineering
- Model Predictive Control (MPC) / Iterative Learning Control (ILC)
- Robotics

UNDERWAY PROJECTS :

- Hybrid Control for Switched Linear Systems with Average Dwell Time

- Asynchronously switched control of switched linear systems with averaged well time
- Robust Fault Diagnosis Observer Design for Continuous-Time Multi Agent Dynamic Systems
- Filtering and fault estimation of descriptor switched systems
- Preventing Time-Delay Switch Attack on Load Frequency Control in Distributed Power Systems

HOBBIES:

1. Swimming
2. fitness
3. Basketball
4. Football
5. Music

RESEARCH ACTIVITIES AND ISI PAPER:

1. Arman Sehat-Nia and Hamed Kharrati, 2014. “*Optimization of Nonlinear Controller Design for Thermal Management in PCR Amplification*”. ISI, Journal of Systems and Control Engineering, iMechE Part I.
(add: <http://pii.sagepub.com/content/229/4/334.abstract?rss=1>)
2. Oral presentation “*Optimization of Thermal Management in PCR*” in First International ICMEMS Conference in Amirkabir University of Technology (Polytechnic), Tehran-Iran, February 2014.