

ARASH ALAVI

EDUCATION

- September, 2010 - present
B.Sc. in Computer Engineering (Software), [Amirkabir University of Technology \(Tehran Polytechnic\)](#), Department of Computer Engineering & Information Technology
GPA: 16.62/20.00 (Via 120 passed credits)
Last Three Semesters GPA: 17.41/20.00 (Via 52 passed credits)
- 2009 - 2010
Pre -University Diploma, Allameh Helli High School, under the supervision of NODET (National Organization for Developing Exceptional Talents), Hamedan, Iran.
- 2006 - 2009
High School Diploma, Allameh Helli High School, under the supervision of NODET (National Organization for Developing Exceptional Talents), Hamedan, Iran.
GPA: 19.06/20.00

RESEARCH INTERESTS

- Design of Programming Languages
- Design of Algorithms , Numerical Algorithms, Graph Theory
- Artificial Intelligence , Neural Networks

SELECTED ACADEMIC PROJECTS

- Summer, 2013
Course: Industrial Training Software (Dr.Ahmad Nickabadi)
Designing and implementation of a Learning Management System (LMS) by Google Web Toolkit.
- Spring, 2013
Course: Data Storage And Retrieval (Dr.Ahmad Nickabadi)
Reading and Processing of a Massive Text Data, Developing a code in Java
- Fall, 2012
Course: Principles of Database Design (Dr.Shahram Khadivi)
Introductory projects by MySQL, MongoDB and voldemort. Developing codes in SQL
- Fall, 2012
Course: Design of Programming Language (Dr.Mehran S.Fallah)
Design and Implementation of a Simple Programming language by OCaml.

- Fall, 2012
Course: Computer Graphics (Dr.Alireza Bagheri)
Advanced implementation of Paint, Developing a code in Java
- Fall, 2012
Course: Computer Architecture Lab
Designing and implementation of basic computer, Developing a code in VHDL
- Fall, 2011
Course: Data Structure & Algorithms(Dr.Ghasemi)
Text Coding using Haffman Coding, Developing a code in Java

HONORS AND ADWARDS

- September, 2013
Eligible for applying to continue my education in the **Master's Program** at the **Department of Computer Engineering & Information Technology** without taking the "National Entrance Exam for Graduate Schools", as a reward of having total GPA over 16.
- Summer, 2010
Ranked 517th (Top 0.2%) among near 200,000 Participants in the "National Universities Entrance Exam" in Math & Physics.
- Summer, 2010
Ranked Top 0.9% among all Iranian Students in the "National Universities Entrance Exam" in Foreign Language.
- Winter, 2009
Selected as a **qualified person** at the first stage of "**Iranian National Mathematics Olympiad**"
- Winter, 2009
Selected as a **qualified person** at the first stage of "**Iranian National Chemistry Olympiad**"

TEACHING EXPERIENCE

- Accepted as Teaching Assistant, "Algorithm Analysis and Design", Department of Computer Engineering & Information Technology, Amirkabir University of Technology (Tehran Polytechnic), 2013
- Teaching Mathematics to students who were preparing for university entrance exam, 2010 - 2012

COMPUTER SKILLS

- **Languages:**
Proficient in: C/C++, Java SE, SQL
Familiar with: Verilog, VHDL, 8086 assembly, XML, HTML, JavaScript
- **Frameworks and Engineering Softwares:**
ModelSim, Proteus, P-Spice, QtSpim, Database Design and Management (MySQL, MongoDB, PostgreSQL), Packet Tracer,

LANGUAGE SKILLS

- **English:** Fluent
TOEFL: 86 (Reading:22 – Listening:22 – Speaking:22 – Writing:20)
GRE PBT: (Verbal:141/170 – Quantitative:168/170 – Analytical
Writing: 2.5/6)
- **Persian:** Native
- **Arabic:** Familiar

**EXTRACURRICULAR
INTERESTS**

- Philosophy , Psychology , Linguistics , Writing essays in Persian , Football ,
Volleyball