

Amin Rahimi

1010 University Ave. #601, San Diego, CA 92103

(408) 966-9219

rahimi.amin.m@gmail.com

<http://www.aminrahimi.com>

Objective

To obtain a full-time position where my electrical engineering training in controls and machine intelligence will be valuable in achieving company goals.

Education

Bachelor of Science, Electrical Engineering, September 2005

University of California, San Diego

Depths: Controls and Systems Theory, Machine Intelligence

Major GPA: 3.8

Relevant Coursework

- Linear Control System Theory
- Linear and Nonlinear Optimization
- Neural Networks
- Programming in Java and MIPS Assembly Language
- Digital Signal Processing
- Linear Algebra
- Differential Equations
- Computer Interfacing

Relevant Skills and Experience (please visit website for project details)

Computer Skills:

- Programming languages: Java, MIPS assembly, Matlab, HTML, CSS
- Operating systems: Microsoft Windows XP, 2000, DOS; Mac OS X; knowledge of Unix
- Software: Matlab 6.5; PSPICE 9.2; Microsoft Word, Powerpoint, Excel; Adobe Photoshop, Premiere; Macromedia Flash

Engineering Projects:

- Design of motor control circuitry for 802.11b robot
- Calibration and localization of a hypothetical GPS receiver using steepest gradient descent and the Gauss-Newton method
- Pattern classification with radial basis functions and multilayer perceptrons
- Dimensionality reduction with principle component analysis using both the covariance matrix method and gradient descent
- Speech compression using linear autoregressive modeling with quantization
- Object detection in images using color pattern signatures in HSV space
- Object tracking in video using background subtraction
- Scheduling and logistics of model trains for the Balboa Park Model Railroad Exhibition using Java with threaded classes
- Design and implementation of a programmable musical recorder interfaced to a computer via parallel port

Other Skills and Experience (please visit website for project details)

Automotive Projects:

- Engine maintenance and replacement
- Grill-mounted light sweeper
- Circulating undercarriage lights

Fabrication and Construction:

- Various tables
- Laminate flooring installation
- Portable marimba, bamboo flute
- Character cutouts

Languages:

- Fluent in Farsi
- Working knowledge of Italian
- Working knowledge of Spanish

Music:

- Saxophone, flute, bass clarinet
- Member of UCSD Wind Ensemble, Hillcrest Wind Ensemble, Muir Musical Orchestra

Miscellaneous:

- Black belt in Tae Kwon Do

Awards and Honors

- Member of Tau Beta Pi engineering honor society, California Psi Chapter
- Recipient of Provost's Honors, Muir College, UCSD

Work Experience

Dispatcher Programmer, San Diego Society of N-scale

June, 2005 - August, 2005

Programmed model train logistics at Balboa Park for ECE 191, team project:

My contributions: wrote a train dispatcher in JAVA, using threaded classes, to automatically run and control model trains on the Pacific Desert Lines railroad layout. Devised and implemented collision-free and gridlock-free algorithms to allow for the automation of multiple trains on the system. Gave weekly presentations regarding progress and technical information.

Contact: Hans P. Paar, Professor of Physics, UCSD

(858) 534-2568

Webmaster, Nilou Day Spa

September 1996 - September 2001

Designed, maintained, and updated the company website:

Created new pages upon request, created forms for online product and gift certificate orders, set up and maintained e-mail for the company.

Contact: Sara Ilisko, Spa Manager

(408) 866-5036

Guest Relations, Target

Summer 1999, Summer 2000

Cashier and cart attendant.

Contact: Mark Combs, Supervisor

(408) 725-2651