Sina Kahnemouyi

☎ +1 (408) 335-8261 ✉ sina.kahnemouyi@gmail.com
3485 Monroe St, Apt 411, Santa Clara, CA 95051
skahnemouyi.com

Education

University of California — **Santa Cruz, CA**
M.Sc. Computer Engineering — 09/14 – 06//2016
B.Sc. Electrical Engineering, minor in Computer Engineering — 07/10 – 06/13

De Anza College — **Cupertino, CA**
Electrical Engineering — 01/08 – 06/10

Professional Experience

NIO USA — **San Jose, CA**
Sr. Firmware Engineer — 03/18 – present

:: Developed firmware for the ES6 and ES8 models
:: Designed and lead the implementation of the remote-control feature of NIO cars.

Gigamon, Inc. — **Santa Clara, CA**
Sr. Software Engineer — 08/16 – 03/18

:: Developed diagnostics software for linux based embedded systems in C and Python.
:: Was in charge of major diagnostics software releases.
:: Closely collaberated with the hardware team in debugging HW/Firmware issues.

Integrated Device Technology, Inc. — **San Jose, CA**
Firmware Intern — 04/16 – 8/16

:: Prepared firmware for ARM based wireless power devices in C.

Sennheiser Electronic, Strategic Innovation — **San Francisco, CA**
Firmware Intern — 07/14 – 10/14, 07/15 – 10/15

:: Worked on designing the firmware for Sennheiser VR 3D Audio, demonstrated at CES 2016.
:: Designed the firmware for an ARM Cortex M based system of wireless audio nodes.

University of California and NASA AMES — **Santa Cruz, CA**
Robotics Research Associate — 06/13 – 6/16

:: Designed a percise RF Localization system presented at SciTech 2016.
:: Worked on developing the Common Payload Data System for the next version of NASAs SIERRA UAV.
:: Developed an iOS app plotting the data received from a wireless sensor in real-time.

UC Santa Cruz — **Santa Cruz, CA**
Teaching Assistant — 01/15 – 04/15

:: Lead discussion sessions and mentored students on code efficiency in embedded systems using embedded C.

UCSC Autonomous Rover for NASA — **Santa Cruz, CA**
Software Architect — 12/12 – 06/13

:: Designed a software for one of the top 3 autonomous navigation systems for the NASA Centennial Challenge.
:: Developed a path finding algorithm running on mulitple processors, keeping track of position by sensor fusion.

Exo-Eskeleton Arm Game — **Santa Cruz, CA**
Junior Research Assistant — 07/12 – 9/12

:: Designed two haptic device based games using C++ and OpenGL for stroke Patients.

Technical Skills

Embedded Platforms	ARM, PIC32, XMOS, Raspberry Pi
Languages	C/C++, Python, C#, Objective C
Communication Protocols	SPI, I^2C, UART
Systems	Linux, Windows, iOS, FreeRTOS, POSIX
Tools	git, Perforce, GCC, Eclipse, Xcode, Microsoft Visual Studio, Altium, SolidWorks
Test/Debugging Tools	Oscilloscope, Logic Analyzer, gdb JTAG

Awards & Honors

Innovation Fair, Gigamon	2017
Dean's Honor, University of California, Santa Cruz	06/13, 03/2015
Technology Achievement Award, Worcester Polytechnic Institute (WPI)	06/13
Winner of the UCSC's Senior Design Project Award	06/13

Hobbies

UCSC intramural indoor soccer captain of Winter 2017 champion team
Designed the most Popular Persian Harry Potters Fans website with over 4000 registered users and managed 100 contributors in various roles such as: Journalists, Graphic Designers, Forum moderators and more.

Publications and Posters

:: S. Kahnemouyi A. Pourshafiee, N. Cramer, K. Obracza, M. Teodorescu, and Jonathan M.G. Glen . RF Network Localization Method for Unmanned Robotics Systems AIAA SciTech (2016).

:: Rfat Emrah zel, Sina Kahnemouyi, Hsinwen Fan, Wai Han Mak, Akshar Lohith, R. Adam Seger, Mircea Teodorescu, Nader Pourmand. Smartphone Operated Signal Transduction by Ion Nanogating (STING) Amplifier for Nanopore Sensors: Design and Analytical Application Sensors ACS Journal

:: S. Kahnemouyi, A. Pourshafiee, A. Seger, N. Pourmand, M. Teodorescu. Biologists Voltmeter. Poster presented at: 2014 NASA Ames-UC Research Review Day; Feb. 10, 2014; Moffet Field, CA. Biologists Voltmeter

:: G. Budd, A. Pourshafiee, S. Kahnemouyi, T. Ho, L. Bravo, S. Mohammed. UCSC Autonomous Rover. Poster Presented at: UC Santa Cruz Industrial Partners Day and Senior Design Poster Session; June 13. 2013; Santa Cruz, CA. UCSC Autonomous Rover

:: J. Baumgartner, A. Pourshafiee, S. Kahneouyi, R. Dal, J. Spritzer, M. Teodorescu. Collaborative Distributed Sensing Rovers. Poster presented at: 2014 NASA Ames-UC Research Review Day; Feb. 10, 2014; Moffet Field, CA. Collaborative Roving Sensor

:: A.Pourshafiee, S.Rad, A. Lohith, C. Cable, R. E. Ozel, S. Kahnemouyi, J. Raskatov, M. Teodorescu, N. Pourmand. Automated Cell Identification Device. Poster presented at: CITRIS Day 2015; Oct. 13, 2015; Berkeley, CA. ACID