

Darya Moshrefi

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ELECTRICAL ENGINEER

A Flexible team member seeking an Entry-Level Position in Electrical Engineering

Recent Electrical engineering BS graduate, specialized in optoelectronics and semiconductors and Biomedical minor and with 2 year experience as a electrical test engineering intern

Possess the analytical abilities and technical skills necessary for engineering innovative designs and applications. Solid understanding of electrical engineering theory, experience in automation of testing tools.

EDUCATION

UNIVERSITY OF CALIFORNIA IRVINE, CA

Bachelor of Science in Electrical Engineering, 6/2014

- **Activities:** ■ Society of Women Engineers (SWE)
 - **Senior Magnetic tweezers Design Project:** Completed design of a device to assist Biomedical and cell researchers to control the current and monitor the movement of microscopic particles using LabView and MATLAB programs.
 - **Languages:** Fluent in Persian, solid speaking and writing skill in German
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EXPERIENCE

TOWERJAZZ, NEWPORT BEACH, CA

Semiconductor wafer manufacturer.

Electrical Engineer Intern, 7/2012 to present

Automation of cascade testers and hardware such as spectrum analyzer, Agilent 4156 and signal generators using LabView programming to automate wafer and package level test procedures.

Contributions:

- Performing various QA and reliability tests on wafers, analyzing and reporting the data to engineers.
- Responsible for writing programs in LabView and MATLAB to assist the engineers in R&D department Data manipulation.
- Improving the image sensor measurement software by MATLAB such as dark noise reduction and eliminating bouncing frame effects
- Conducting tests on semiconductor packages and manipulation of their behavior. Such as Beta degradation and reliability tests.
- Small layout projects using cadence under senior engineers supervision

Research Experience:

- UCI DIFFUSE OPTICAL TOPOGRAPHY RESEARCH GROUP
March 2012 – November 2012

Worked with senior students to design a bandpass filter and a signal amplifier for the Diffuse Optical Tomography system that is used to detect cancerous tumors in Dr. Gulsen's Lab in UC Irvine's Tu and Yuen Center for Functional Onco-Imaging.

- CALPLUG RESEARCH GROUP, UCI

March 2012 – December 2013

- Organizing a report to introduce new terminologies for different power states of a set top box based on both national and international standards in order to generalize and unify the terms used in the industry.

TECHNOLOGY SUMMARY

Failure analysis skills, technical report, data manipulation, LabView, MATLAB, FPGA C and C++, Cadence, and Excel, Word, verbal and writing fluency in Persian and German