# **VIVIAN LE**

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Cupertino, CA

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| **OBJECTIVE**  To obtain a full-time, hands-on position in the biomedical device field, advancing new technology. |
| **EDUCATION**   |  |  | | --- | --- | | University of California, San Diego, *La Jolla, CA* | June 2011 | | Bachelor of Science, Bioengineering |  | |
| **TECHNICAL SKILLS & QUALIFICATIONS**   * General machining skills, Tapping, Soldering, Vapor polishing, Circuit building, Laser cutting. * SolidWorks, LabVIEW, Matlab, HTML, CSS. * Microsoft Suite, Dreamweaver, Photoshop. |
| **WORK EXPERIENCE**   |  |  | | --- | --- | | **System Engineer**, IntegenX, *Pleasanton, CA* | 11/2011 – 04/2013 |  * Designed test equipment and tooling to test and verify components and subsystems of a complex human DNA identification system. Used Solidworks to design and then fabricated designs using company machine shop mill, lathe, and laser cutting machine. * Designed and built sealers and presses for disposable parts, testing and defining settings to ensure consistent working seal. * Wrote LabVIEW software to automate verification, calibration, and reliability tests of components and subsystems. Wrote Matlab and Excel VBA scripts to analyze collected data. * Supported prototype benchtop systems and components with upgrades, troubleshooting and repair. * Maintained engineering lab supply of materials and was engineering lab safety officer.  |  |  | | --- | --- | | **Contract Engineer**, IntegenX, *Pleasanton, CA* | 09/2011 – 11/2011 |  * Modified existing parts using CNC machine. * Fabricated and supported benchtop systems with upgrades, troubleshooting and repair.  |  |  | | --- | --- | | **Senior Design Project**, Dr. Michael Sailor’s Lab, *La Jolla, CA* | 08/2010 – 06/2011 |  * Identified and quantified major sources of noise of an optical biosensor platform that looks at protein interactions by detecting changes in the local refractive index as they pass over a porous silicon chip. * Implemented design changes and negated noise error coming from ambient light changes and bubbles caught in the flow channel that negatively affected experiments.  |  |  | | --- | --- | | **Reliability Engineering Intern**, Adecco @ BD Biosciences, *San Jose, CA* | 06/2010 – 09/2010 |  * Applied DFR to create a comprehensive test plan for robustness stress testing on a flow cytometer based on FMEA identified risks to identify and prevent issues from occurring at customer sites. * Executed test protocol and managed test schedule to complete deliverables by agreed due dates while trouble shooting leaks, firmware issues and instrument delivery delays. * Communicated findings to hardware team at weekly meetings to resolve reliability issues of product. |
| **ACTIVITIES**   |  |  | | --- | --- | | **USA Team Member**, Mightyfist Taekwon-do, *San Jose, CA* | 12/2004 – Present |  * Third degree black belt, USA team member at 2011 World Championships and 2012 World Cup. * Coached and recruited the California male and female junior team to a national title in 2010.  |  |  | | --- | --- | | **Web Designer**, Freelance, *Cupertino, CA* | 09/2006 – Present |  * Created a business that designs and maintains websites, surpassing the needs and specifications of client, leading to repeat business and further referrals. * Utilize Microsoft Suite, Photoshop, Dreamweaver and HTML coding in the production of websites. |