

Alex DeBoni

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Education

- 2011–2015 **Bachelor of Science**, *Santa Clara University*, Santa Clara, CA.
Computer Science and Engineering with a Mathematics Minor
Graduated with Honors and Magna Cum Laude
- 2015–2016 **Master of Science**, *Santa Clara University*, Santa Clara, CA.
Computer Science and Engineering with a Software Engineering Emphasis

Experience

- 2015–current **Software Engineer**, *Varian Medical Systems*, Palo Alto, CA.
Write software to automate and aid in the manufacture of radiation therapy machines. Create design requirements, risk assessment, test case and validation documentations to meet FDA standards for validation of new automation software.
- 2014–2015 **Consultant**, *Pelican Imaging*, Santa Clara, CA.
Wrote code to automate camera testing and validation, through both robotic stages and image post-processing.
- 2013–2014 **Computation Intern**, *Lawrence Livermore National Laboratory*, Livermore, CA.
Developed quickly and inexpensively a functional physical-layer hardware-software simulator and low-level communication testing tools to validate hardware-software interactions.
Ensured maximum operator productivity at the NIF by identifying the root cause and finding a solution for camera failures through the reverse-engineering of drivers and firmware.
- 2010–2016 **Owner**, *Accufire Systems*, www.accufiresystems.com.
Created software to help competitive shooters practice shooting in their homes with a pulse laser source, utilizing their computer and webcam. Currently maintains registration servers and provides minor software updates and feature requests.

Skills

- Languages C/C++, C#, Java, Python, MATLAB, SQL
- Paradigms Software Formal Methods, Machine Vision, Reverse Engineering
- Tools Visual Studio, Eclipse, Git, SolidWorks, AutoCAD, MySQL, SQL Server
- OS's Debian, Arch, Windows XP/7/8/10, OS X

Awards and Certifications

- Santa Clara University Presidential Scholarship
- Lockheed Martin National Merit Scholarship
- Lawrence Livermore National Laboratory Computing Applications and Research Award
- LLNL National Ignition Facility and Photon Science Award
- Certified SolidWorks Associate (ID: C-5L3YSY6EQH)

Interests

- Mountain Biking
- Recreational Shooting
- Craft Beer (See what I'm currently brewing at untappd.com/DeBoniBrewing)
- Fashion