

Zack Lalanne

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Education

- 2013 – 2017 **Master of Science in Computer Engineering**, *University of Texas at Dallas*, Dallas, TX.
GPA: 3.78/4.00
- 2008 – 2012 **Bachelor of Science in Computer Engineering with Honors**, *University of Texas at Austin*, Austin, TX.
Focus on Embedded Systems and Computer Architecture, GPA: 3.85/4.00

Experience

Industry

- 2012 – **Embedded Software Engineer**, *Texas Instruments*, Dallas, TX.
- Present Developed high level software libraries for MSP430 and MSP432
Developed IDE integration, header files and debugger support for MSP432 platform
Developed tools for engineers to discover and use MSP430 and MSP432 software
Developed infrastructure to accelerate development for software teams
Worked with software groups across TI to standardize on best practices and tools
Developed internal web applications to help team with development and software test reports
Performed routine support to field engineers on MSP430 and MSP432
- 2011 **MSP430 Embedded Software Engineer Intern**, *Texas Instruments*, Dallas, TX.
Learned about MSP430 software development and architecture
Created automated testing environment for MSP430 USB software stack releases

Academic

- 2012 **Teaching Assistant**, *University of Texas at Austin*, Austin, TX.
Introduction to Embedded Systems for Dr. Jon Valvano
Ran lab sessions and office hours to assist students with labs and teach debugging skills
Prepare lab lectures and demos to introduce students to new concepts
- 2011 **Engineering and Math Tutor**, *University of Texas at Austin*, Austin, TX.
Tutored freshmen in math and engineering concepts
Assist students with programming exercises and reinforced concepts

Skills

Proficient or familiar with a multitude of programming languages and concepts, including:

C, Java, C++	MSP430, MSP432/ARM	LaTeX, Doxygen, Markdown
Python, Bash	MySQL, Django, Flask	Git, Ansible, Vagrant, Linux

Honors and Achievements

- 2012 **First Place**, *Senior Design*, Telepresence for the Visually Impaired.
- 2012 **Runner-Up**, *EE345M Real Time Operating Systems*, Autonomous Robot Lab.
- 2012 **Recipient**, *Emerson Process Management Scholarship*.
- 2011 **First Place**, *EE445L Microprocessor Applications and Organization*, Design Challenge: 3-D Connect Four.
- 2011 **Recipient**, *Eta Kappa Nu Endowed Scholarship*.

Extracurricular

- 2007, 2009, **Volunteer**, *Uganda, East Africa*, Kampala, Uganda and Bwindi, Uganda.
- 2013 Worked in local hospital
Constructed housing settlements and cultural preservation center for indigenous people
Painted and renovated local orphanage and school
Assisted with bookkeeping for group

2011 – 2012 **Member, Eta Kappa Nu – Psi Chapter, Austin, TX.**

Participated in events to give advice to underclassmen about tech area classes

Participated in events to increase engineering interest in high school girls