



SOMBIRI

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US Citizen 



EDUCATION

Master of Information and Data Science | University of California, Berkeley

GPA: 3.85

2018

B.S. Computer Engineering | Missouri University of Science and Technology

Minor Computer Science

2009



EXPERIENCE

Student Life Robotics Coach | i.am College Track - Boyle Heights

2017 – PRESENT

- Organize the strategy and support of College Track Boyle Heights FIRST Tech Challenge robotics team through the 2017-2018 season
 - Working with underrepresented high school students in East Los Angeles
- Support team through building, configuring, testing, as well as sharing STEM experience

Lead Software Engineer / Engineering Contractor | Second Order Effects

2016 – PRESENT

- Execution of software and firmware projects across multiple platforms
 - Projects include: In space deployment camera firmware and checkout system, automotive lighting, and consumer electronic devices
 - Platforms include: STM32, MSP430, ATMEL SAM/AVR, and windows / Linux
- Developed the company's software development and release process
- Hiring and managing employees and contractors to execute software related task
- Writing internal software or scripting to manage business needs and data

Avionics Integration Engineer | SpaceX

2011 – 2016

- Dragon Re-usability Program Avionics Responsible Engineer (RE)
 - Created avionics qualification and reuse plan
- Responsible for uniting Dragon avionics systems into a functional launch ready spacecraft. This involved:
 - Writing, executing, and performing data review for checkout procedures
 - Working with various teams to implement changes and resolve integration issues
- Avionics Responsible Engineer for Dragon cargo resupply missions (CRS) 1, 4, 7, and 11
- Dragon Systems Mission Operator (SYS1)
- Responsible for communicating Dragon system health and intended operations to NASA counterparts while Dragon is in flight



SKILLS

- Leadership and management of engineering teams
- Working electronics knowledge
- Familiar with continuous Integration / Unit testing: Jenkins
- Familiar with database technologies SQL, noSQL
- Experienced with shop and hand tools including the Mill and Lathe
- TIG and MIG welding
- Experienced with C/C++ and Python
- Familiar with a variety of programming languages and development environments
- Familiar with web development: HTML, CSS, PHP, and JavaScript
- Software version control: Git, SVN
- Hands-on building and fabrication experience



ACTIVITIES

Restoration of 1983 Kawasaki GPz 550 motorcycle

Turbocharger conversion on BMW 525i

Motorsports: Karting, motorcycle time attack, and autocross

Missouri S&T formula SAE racing team volunteer engineering consultant

Hiking

Exercise and fitness

Volunteering



PUBLICATIONS

Journal

Laser Physics Letters

Lasers in Surgery and Medicine
Volume 40:734-737, Dec, 2008

Photomedicine and Laser Surgery
Volume 27:221-226, April 2009.

Title

The Relative Effects of 405 NM and 470 NM Light on Methicillin Resistant Staphylococcus Aureus (MRSA) In Vitro

Visible 405 NM Light Photo-destroys Methicillin Resistant Staphylococcus Aureus (MRSA) In Vitro

470 NM Blue Light Kills Methicillin Resistant Staphylococcus Aureas