Jason Savath

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EDUCATION

University of Colorado at Boulder   Boulder, Colorado
Bachelor of Science in Mechanical Engineering (*Dean's list multiple times*)   2017
Computer Science Minor   2017
Passed Fundamentals of Engineering Exam (EIT)   2017
Selected Courses: Senior Design, Computational Methods, Computer Aided Design/Fabrication   ***GPA:* 3.2/4.0**

SKILLS

Software and Programming Skills:
- **1 YR Experience:** Wolfram Mathematica, CorelDraw, AutoCAD, Heroku, CSS, Bootstrap
- **2 YR Experience:** C, C++, Python, Android Apps, SQL Database, HTML, Arduino
- **3 YR Experience:** MATLAB, GitHub, Microsoft Visual Studios
- **4 YR Experience:** Java, Unity3D, JavaScript
- **5+ YR Experience:** Solidworks, C#, Microsoft Office (Word, Excel, PowerPoint)

Other Skills: Welding, soldering, prototyping, RegEx, AWK, SED
Concepts: AGILE, Lean Manufacturing, 5S, Advance Product Quality Planning, Production Part Approval Procedure
Language Skills: Fluent Chinese, Proficient Laotian, Beginning Arabic, and Beginning Spanish.

EXPERIENCE

Mechanical IMI Graduate – Project Management   September 2017 – March 2018
IMI Precision Engineering   Seattle, Washington
- Change Request Coordinator
- Specified product validation procedures prior
- Created a Change Request Database
- Tooling Database
- Lean manufacturing and NPD projects

Mechanical Engineer PATHWAYS Intern   January 2017 – June 2017
National Institute of Standards and Technology   Boulder, Colorado
- Design and model a quantum technology laboratory using Solidworks.
- Research and manufacture chips/devices for real-world quantum computing through nanotechnology.
- Gathered data using a network analyzer and spectrum analyzer.
- Designed a mutual inductance radio frequency band pass filter using coplanar waveguide with the Quite Universal Circuit Simulator.
- Held design reviews with team and management to receive feedback.

Mechanical Engineer and Financial Manager   August 2016 – May 2017
Ball Aerospace – CU Boulder Senior Design Class   Westminster, Colorado
- Designed an auto balancing radar cross-section fixture with a team of 8 engineers.
- Modeled and calculated stress analysis, balance and inertia, mechanism design, control systems, interface definition, dynamic volume constraints, and functional testing.
- Managed the budget, procurement of materials, and reimbursements for the team.
- Experienced full design process with PDR, CDR, and manufacturing review.
- Built a test box using Arduino and related electronic components to control the fixture
- Further refined Solidworks and MATLAB skills.

Student Research & Development Intern   June 2014 – July 2016
Sandia National Laboratories   Albuquerque, New Mexico
- Developed a real-time tracking security and safety system using C# and radio frequency tags.
- Used .NET and SQL Server to incorporate a relay module and an AC&D system.
- Programed the security and safety system using C#, and used WPF for the User Interface.
- Developed an interactive strategic tabletop tool using Unity3D (C# and JavaScript).
- Developed code in C# and demo for smart card authentication and cyber security.
- Developed a variety of interactive training programs in C# and JavaScript.

Aerodynamics Team Member   January 2012 – May 2012
UNM FSAE (University of New Mexico, Formula Society of Automotive Engineers)   Albuquerque, New Mexico
- Collaborated with 16 team members to build a lightweight racecar from scratch.
- Worked hands-on with carbon fiber and fiberglass using hardening resin.
- Won 10th place out of 80 teams at the FSAE-Lincoln race.

VOLUNTEER WORK   August 2009 - Current
- Over 400 hours of Community Service.
- Volunteered at Balloon Fiesta, Big Brothers Big Sisters, Food Banks, NFL, and illness support walks.

HONOR/AWARD   June 2012-Current
- Government paid Arabic course given to 25 people in New Mexico (StarTalk).
- Artist Participant in the Albuquerque Metro Art Show and received the Merit Award.
- National English Honors Society, National Honors Society, National Spanish Honors Society.
- Scholarships Awarded: Kiwanis, Phillips 66, Kenneth Forsythe, and William J. and Marvel B. Loach

LEADERSHIP
Treasurer/Fundraiser of CollaborASIAN   April 2015 - April 2016
- Unify and manage 8 smaller organizations on campus.   Boulder, Colorado
- Managed budget and spending of the organization.
- Raised $1500 in one night to support the organization.

Treasurer/Fundraiser of Pi Delta Psi Fraternity Inc.   April 2015 - May 2017
- Managed the budget, bank account, and reimbursements for each member.   Boulder, Colorado
- Raised over $1,500 for the Nepal earthquake incident through the annual CodeRED event.
- Raised over $500 a year for breast cancer awareness and donated to various charities.

HOBBIES
- Hiking
- Culinary Arts
- Photography / Photoshop
- American Chess / Chinese Chess
- Web Designing
- Game Development
- Raspberry Pi