Jason Savath

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EDUCATION

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

SKILLS

Software and Programming Skills
- **1 YR Experience:** Wolfram Mathematica, CorelDraw, AutoCAD, Microsoft SQL Server, HTML, Heroku
- **2 YR Experience:** Microsoft Visual Studios, C, C++, Python, Android App Developer, Tutoring
- **3 YR Experience:** Unity3D, Matlab, C#, JavaScript, GitHub
- **5+ YR Experience:** Solidworks, Java, Microsoft Office (Word, Excel, PowerPoint)

Other Skills: Welding, soldering, AGILE, RegEx, AWK, SED
Language Skills: Fluent Chinese, Conversational Laotian, Beginning Arabic, and Beginning Spanish.

EXPERIENCE

Mechanical Engineer PATHWAYS Intern   1/17-6/17
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
- Design a mutual inductance band pass filter using coplanar waveguide with QUCS.

Mechanical Engineer and Financial Manager   8/16-5/16
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.
- Further refined Solidworks and Matlab skills.

Student Research & Development Intern   6/14-7/16
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.

Team Member   1/12-5/12
UNM FSAE (University of New Mexico, Formula Society of Automotive Engineers)   Albuquerque, New Mexico
- Collaborated with 16 people to build a lightweight racecar from scratch.
- Worked hands-on with carbon fiber, fiberglass, and hardening resin.
- Won 10th place at FSAE-Lincoln race.

VOLUNTEER WORK   8/09-Current
- Over 400 hours of Community Service.   Albuquerque, New Mexico & Boulder, Colorado
- Volunteered at Balloon Fiesta, Big Brothers Big Sisters, Food Banks, NFL, and illness support walks.

HONOR/AWARD
- Government paid Arabic course given to 25 people in New Mexico (StarTalk).   6/12-Current
- 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   4/15-4/16
- Unify and micromanage 8 smaller organizations on campus.   Boulder, Colorado
- Managed budget and spending of the organization and raised $1500 successfully in one night

Treasurer/Fundraiser of Pi Delta Psi Fraternity Inc.   4/15-Current
- 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.