JAMIE GRAHAM

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My dream is to use engineering and software to not only inspire new technologies, but to inspire people.

EDUCATION

Oregon State University Honors College – Corvallis, OR Computer Science, Engineering, Business

GPA 3.8, Honors Scholar Graduation Date: June 2020

Society of Women Engineers (SWE) Club, organize engineering talks and events with industry members.
Robotics Club. Leadership: Web-Development and Social Media Coordinator.
Socratic Club, organize campus-wide political debates. Leadership: Website Design/ Social Media.

Engineering & Aerospace Sciences Academy (EASA)– McMinnville, OR Computer Science, Engineering

GPA 4.2, Valedictorian- Class Rank: 1 / 482. McMinnville High School. Engineering and Computer Science Scholar
Graduation Date: June 2016

MIT-Lemelson InvenTeam[1], FIRST Robotics[2], Nanolab Project[3], Simulator Engineering Capstone[4]
Student Government. President of Engineering Aerospace & Science Academy.
Conducted several presentations to promote FIRST robotics, ISS Nanolab, and STEM in education.
Leadership in Event Organization. Lake Oswego Girls Engineer, featured at Autodesk. Sept. 19, 2015
FIRST Robotics Volunteer/ Mentored 2 JR. FIRST Lego League (FLL) teams in Tacoma, WA/ McMinnville, OR.

Chemeketa Community College – McMinnville, OR CS 161, CS 160, MTH 251, MTH 25

College and High School Dual-Credit- Computer Science and Calculus Graduation Date: June 2016

GPA: 4.0- Design/ Analysis of Algorithms, C/C++ and JAVA. Adv. Computer Science Topics/ Data Analytics.

Oregon Institute of Technology – Wilsonville, OR June-August 2016

GPA: 4.0- MIS 207: Linux Administration: Troubleshooting Linux from command line interface and management

RELEVANT EXPERIENCE

Oregon State University Information Technology (IT) – Corvallis, OR Oct. 2016 – Present

Software Developer. Student IT. Develop custom salesforce based application to better manage Oregon State University's internal IT department expenditures, such as making purchase reports, approving them, and documenting indices and invoices. – Using SalesForce, Apex/Visual Force programming, JIRA / GitHub

24Notion - Portland, OR July 2016 – Present

Software Developer. Digital Marketing. Paid internship. Mentorship with 24Notion executives, blog and campaign management, social media promotion, marketing initiative, creative thinking, STEM representative, presentation, industry research, oversee special projects from concept to execution,– using Java, (web) HTML, PHP, CSS, JS, (mobile) Android development, Database management, writing

Autodesk Inc. – Lake Oswego, OR June 2014 – May 2016

Software Engineer. Project Manager. Paid internship. Initiated and lead the development of FIRST Robotics Competition robot simulator that maps student's Java and C++ code to robot CAD designs, BXD: Synthesis, open-source and available/ marketed to thousands of people world-wide. Download at: http://bxd.autodesk.com/ - using C#, Java, C++, Web, Unity 3D, Gazebo, OpenGL, Autodesk Inventor

- 1st year: Started summer of 2014 as the youngest High School intern on team of 8 where we initiated/developed the idea. Continued development, planning, and presentations alone over school year.
- 2nd year: Project Manager summer of 2015 of 11 Autodesk interns to lead software development/ create marketing plan for our open-source product to be used world-wide. Continued develop. over school year.

PROJECTS

Lemelson-MIT InvenTeam[1] – Cambridge, MA / McMinnville, OR Oct. 2014 - June 2016

Team leader. Technical Lead. Initiated and launched my school's Lemelson-MIT InvenTeam, awarded $10,000 grant from MIT to build the project. Presented solution at EurekaFest at MIT in June 2016.

- Organized and lead this 2+ year project of research and engineering to construct a better shelter for Nepal refugees' communities- Researched 100+ patents regarding Disaster relief for developing original design

FIRST Robotics Competition Team 4043 NerdHerd[2] – McMinnville, OR Sept. 2013 – June 2016

Lead Programmer. Entrepreneur. Designed, built, and programmed award winning robots to compete in global competitions. Lead several outreach community events to share STEM with others in PNW.

- Developed complex autonomous and remote controlled Java open-source code for robot– using Java
- Lead production of business plan- professional evaluation of our team's dynamics, income and cost analysis, SWOT analysis, responsibilities and design matrix, won Entrepreneurship Award.

International Space Station Nanolab Project[3] – McMinnville, OR Sept. 2013 – Dec. 2015

Lead Programmer. Brainstormed, designed, and built 2 micro-scale experiments to be conducted on the International Space Station. Mentored/ taught programming younger students. – using Parallax BASIC, Nanolab

CADmeum Machine Simulator[4] – Newberg, OR/ Camas, WA Aug. 2015 – June 2016

Engineering Capstone research project- centered around creating machine simulation products to map popular machine code to CAD models help engineers test designs before manufacturing. – using Autodesk Inventor API, OpenGL, C#.

LEADERSHIP/ OTHER AFFLIATIONS

Hackathons Attended: Spectra at YouTube HQ '16; Portland CodeDay '14/ '15; Beaver Bar-Camp at OSU '15
Leadership/ Presentation. Girl Make Games. Development Workshops/ Weekend Camps. July 2016- Present
Leadership. Captain of Fellowship of Christian Athletes (FCA). 2014- 2016
National Honors Society. Yamhill Community Action Partnership (YCAP) community service. 2013-2016
Leadership/Presentation. Kidco Productions: Elementary school anti-bullying program. 2012-2013

TECHNICAL SKILLS

Programming Languages	Strongest: C#, JAVA, Python, C++ Experience with: Robot-C, HTML, JavaScript, XML, BASIC, Visual Basic, Arduino, Android, CSS, PHP, Objective-C, Lua, Apex, VisualForce
Applications	SalesForce, Git/ JIRA systems, Autodesk Inventor/ Fusion 360, Unity 3D, Gazebo, OpenGL
Certifications	Linux Administration (CompTIA's Linux+ Certified)
Electrical and Mechanical	Wiring, soldering, and digital circuit design skills. Implementation of engineering process from design to production. Sufficient 3D CAD modeling, design sketching, basic welding Software: MultiSim, Parallax, Arduino, Raspberry Pi, VEX, Robot-C
Writing Skills	Ability to efficiently produce thorough research and concise, organized reports, labs, memos

AWARDS

- Valedictorian of McMinnville High School (Rank 1 out of 482 graduating students) June 2016
  - MHS Computer Science Scholar/ Scholarship Recipient; Engineering (EASA) Scholar
- NCWIT Aspirations in Computing National Award Dec. 2015
  - Awarded 1 of 35 recipients nationally for leadership and excellence in Computer Science and IT
- Society of Woman Engineers (SWE) National Award Winner and Member July 2016
- NCWIT Aspirations in Computing SW Washington & Oregon Affiliate Winner Jan. 2015 and 2016
- MIT THINK Scholars National Honorable Mention on Excellent Engineering Project Jan. 2016
- Outstanding achievement in Computer Science given by Kiwanis Club May 2016
- National Honor Society scholar (NHS) and National Society of High School Scholars (NSHSS) 2014- 2016
- FIRST Robotics: Dean's List Nominee/ Engineering Inspiration Award/ Entrepreneurship Award Feb. 2014/5
- Excellence in Science Fair Project Award given by U.S. Army at State Science Fair (WA) March 2013
- Character Award – "Walk the Talk Award" (School-wide award for exhibiting high character) May 2013