JAMIE GRAHAM

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

SUMMARY

- Leader
- Flexible, ability to learn, goal-oriented
- Excellent communication skills; ENTJ
- Passion for software development and robotics
- Programing and analytical skills
- Experience leading teams in engineering and software projects

EDUCATION

Oregon State University Honors College – Corvallis, OR   Computer Science, Engineering, Business
Graduation Date: June 2020

Engineering & Aerospace Sciences Academy (EASA)– McMinnville, OR   Computer Science, PLTW Engineering
GPA 4.2, Valedictorian- Class Rank: 1 / 482. EASA and Computer Science Scholar
Engineering pathway, McMinnville High School/ Evergreen Space & Aviation Museum   Graduation Date: June 2016

Chemeketa Community College – McMinnville, OR   CS 161, CS 160, MTH 251, MTH 252
College and High School Dual-Credit- Computer Science and Calculus- CS 161: Design and Analysis of Algorithms,
C/C++ and JAVA. CS 160: Adv. Computer Science Topics/ Data Analytics.
GPA: 4.0   Graduation Date: June 2016

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

24Notion - Portland, OR   July 2016 – Present
Software Developer. Digital Marketing. Paid internship. Mentorship with 24Notion executives, web and mobile app development and management, blog and campaign management, social media promotion, marketing initiative, creative thinking, STEM representative, presentation preparation, industry research, oversee special projects from concept to execution on day-to-day deliverables.

Autodesk Inc. – Lake Oswego, OR   June 2014 – May 2016
Software Engineer. Project Manager. Paid internship. Initiated and lead the development of FIRST Robotics Challenge game simulator – BXD: Synthesis, open-source and available/ marketed to thousands of people worldwide. Download at: http://bxd.autodesk.com/

- Started Summer of 2014 as the youngest Autodesk intern on team of 8 where I initiated and developed a simulator for FIRST robotics students to test their code, test design, and practice driving on their Inventor models.
- Project Manager summer of 2015 of 11 Autodesk interns to lead software development and create marketing plan for our open-source product to be used world-wide. Continued with team of 3 over school year 2015-16.
- Tasks include: developing complex code, conducting meetings, presentations of proposals, communication with outside resources, research, organization, project planning, and day to day and long term responsibilities. - using C#, Java, C++, Web Development, GitHub, Unity 3D, Visual Studio, and Inventor.

FIRST Robotics Competition Team 4043 NerdHerd – 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 the Pacific Northwest.

- Developed complex autonomous and remote controlled Java open-source code for robot– using Java, NetBeans, Eclipse, National Instruments software, Autodesk Inventor
- 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.

Lemelson-MIT InvenTeam – 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.

- Organized and lead this 2+ year project of research and engineering to construct a better shelter for Nepal refugees' communities. Presented solution at EurekaFest at MIT in June 2016.

International Space Station Nanolab Project – McMinnville, OR   Sept. 2013 – December 2015

Lead Programmer. Brainstormed, designed, and built 2 micro-scale experiments to be conducted on the International Space Station. Worked with Intel mentor and other engineering mentors.

CADmeum Machine Simulator – 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#.

SKILLS

Leadership	Can confidently lead many engineering and nontechnical teams of various sizes effectively
Programming Languages	C#, C++, JAVA, Python, Robot-C, HTML, JavaScript, XML, BASIC, Visual Basic, Arduino, Android, CSS, PHP, Objective-C, Apex, VisualForce
Software Experience	Team applications: Salesforce, GIT control systems/ GitHub, JIRA management, Slack Operating Systems: Windows 7/8/10, Linux (CompTIA's Linux+ Certified) API development: Autodesk Inventor, Unity 3D, OpenGL, Gazebo, Bullet Physics, PhysX, Oculus Rift Development Kit 2, WPI FIRST Robotics libraries 3D CAD modeling: Autodesk Inventor, Google SketchUp, Blender Environment experience: Visual Studio 2012/2013/2015, NetBeans, BlueJ, Eclipse Miscellaneous: Microsoft Word/PowerPoint/Excel Macro development, GameMaker, Styncil
Electrical and Mechanical Experience	Experience with wiring robot sensors, MultiSim, parallax, Arduino, Raspberry Pi, VEX, Robot-C. Implemented engineering design process and incorporate into engineering, including design sketching, 3D CAD modeling, and basic construction and welding.
Writing Skills	Ability to efficiently produce thorough research and concise, organized reports, labs and memos

AWARDS

- Valedictorian of McMinnville High School (Rank 1 out of 482 graduating students)   June 2016
  - o MHS Computer Science Scholar/ Scholarship Recipient; Engineering (EASA) Scholar
- NCWIT Aspirations in Computing National Award   December 2015
  - o 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   January 2015 and 2016
- MIT (Massachusetts Institute of Technology) THINK Scholars National Honorable Mention   January 2016
- Outstanding achievement in Computer Science given by Kiwanis Club   May 2016
- National Honors Society scholar (NHS) and National Society of High School Scholars (NSHSS)   2014- 2016
- FIRST Robotics: Dean's List Nominee/ Engineering Inspiration Award/ Entrepreneurship Award   February 2014/5
- Character Award – "Walk the Talk Award" (School-wide award for exhibiting high character)   May 2013
- Excellence in Science Fair Project Award given by U.S. Army at WA State Science Fair   March 2013

OTHER AFFILATIONS

Student Government. President of Engineering Aerospace & Science Academy.   Sept. 2015- June 2016

Leadership in Event Organization. Lake Oswego Girls Engineer, featured at Autodesk.   Sept. 19, 2015

Leadership/ Presentation. Girl Make Games. Development Workshops/ Weekend Camps.   July 2016- Present

Leadership. Captain of Fellowship of Christian Athletes (FCA).   Sept. 2013 – June 2016

Leadership/Presentation. Kidco Productions: Elementary school anti-bullying program.   Oct. 2012-June 2013

Hackathons Attended: Spectra at YouTube HQ '16; Portland CodeDay '14/ '15; Beaver Bar-Camp at OSU '15

Community Service/ Volunteer Work: Sept. 2012 – Present

- National Honors Society. Yamhill Community Action Partnership (YCAP) community service.
- FIRST Volunteer/ Mentored 2 JR. FLL teams in Tacoma, WA and McMinnville, OR.
- Conducted several presentations to promote FIRST robotics, ISS Nanolab, and STEM in education