Benjamin G. Fields

Fieldsbe@oregonstate.edu | (541)224-3874

Personal Webpage: http://web.engr.oregonstate.edu/~fieldsbe/

Current Address	Permanent Address
1445 NW Vista Pl.	5618 S. Flax Pl.
Corvallis, OR 97330	Boise, ID 83716

Education

Oregon State University   Spring 2016 – Present

M.S. Degree in Industrial Engineering with a minor in Computer Science, GPA: 3.76

Graduating: Spring 2018

Oregon State University   Fall 2010 – Winter 2015

B.S. Dual Degree in Industrial and Manufacturing Engineering, GPA: 2.98

Technical Skills

Highly Proficient:

o   Programming Languages- C++, C, Python, Java, HTML, CSS, JavaScript

o   OS- Windows, Mac

o   Software Tools- Visual Studio, Xcode, Eclipse, Arena Simulation Software, Excel, CrystalBall, Statgraphics, Microsoft Word, Microsoft PowerPoint, Microsoft Visio, Cmake, Vim, GitHub

o   Skills- Computer Programming, Discrete Event Simulation, Design of Experiments, Computer Graphics Programming, Teaching, Public Speaking, Continuous Improvement, Time Management, Lean Manufacturing, Time studies, SSH

Average Proficiency:

o   Programming Languages- Haskell, C#, VBA, Bash, SQL

o   OS- Linux

o   Software Tools- Solidworks, Autodesk Suite, Matlab, Aicrosoft Access, Microsoft Project, LINDO/LINGO, PgAdmin

o   Skills- Machine learning, deep learning, data mining, facility layout, data and computer communications

Some Exposure:

o   Programming Languages- Objective-C, Swift, R, Lua, Cuda, Assembly

o   Software Tools-R-Studio, Renderman, Qt, Wireshark, Intel Parallel Studio

o   Skills- Mobile Development, CFD

Professional Experience

Oregon State University, Corvallis, OR   Apr. 2017 - Present

Graduate Research Assistant

o   Design and development of an open source software suite for the support of the GTFS-ride data standard. A feed validation tool was built using Python. A Webhub suite is being developed to allow users to upload ridership data into a central database and perform analysis with reports generated from the uploaded data. This platform is built using Java, HTML, CSS, JavaScript, and PostgreSQL.

Oregon State University, Corvallis, OR   Dec. 2016 – Apr. 2017

Graduate Teaching Assistant

o   Assist in the running of IE 415/515 - Simulation and Decision Support Systems. Tasks involved leading lab sections and developing lab exercises. This class uses Rockwell Collin's Arena Simulation software as well as Oracle's CrystalBall for predictive modeling, forecasting, simulation, and optimization.

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Oregon State University, Corvallis, OR   Jan. 2016 - Dec. 2016

Graduate Research Assistant

o   Capacity analysis of the Cab-In-White assembly system at Daimler Trucks North America's Portland assembly plant. This task involved the modeling of the production system in Rockwell Collin's Arena simulation software and using VBA integration paired with statistical analysis to evaluate capacity.

Tillamook County Creamery Association, Tillamook, OR   Mar. 2015 - Sept. 2015

MECOP Engineering Intern

o   Provide support for capital asset planning, facility layout, process planning, process analysis, ROI Analysis, and continuous improvement initiatives. This work was focused on the creation of a new assembly line to utilize trimmed/cut cheese. This project involved communication with teams across the nation to provide quoting, facility layout, and an analysis of financial return.

Silicon Forest Electronics, Vancouver, WA   Mar. 2014 – Sept. 2014

MECOP Engineering Intern

o   Observe everyday tasks and create new and improved processes to increase productivity. Common tasks involved time studies, tool fixture design, process improvement, 5S, creation of standard operating procedures, and root cause analysis. One highlight of this work was reducing roughly 10 minutes of rework per job on a unit being produced for one of the most important customers at the time.

Oregon State University, Corvallis, OR   Jan. 2011 - Sept. 2013

Climbing Instructor Supervisor

o   Support the floor staff in maintaining participant safety and leading technical courses in climbing technique and safety.

Certifications

o   IISE Six Sigma Green Belt

o   Competent Communicator (CC)

Honors/Activities

o   Multiple Engineering Co-op Program (MECOP)

o   Toastmasters International: V.P. of Membership