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Objective:

To create robust and world-class software packages for innovative products, services, or research [1]

Education:

Georgia Institute of Technology 2015-current
MS Computer Science, anticipated completion 2017
GPA: 4.0

Portland State University 2012-2014
Equivalent, BS Computer Science (no capstone coursework)
GPA: 3.8

Oregon State University 2005-2010
BS Manufacturing Engineering
BS Industrial Engineering with Business Engineering Option
Business Minor
GPA: 3.92, Summa Cum Laude
Capstone: Automated Production Scheduling

- Developed SolidWorks CAD extension for managing factory-wide resource consumption metadata on all components of a company's products. Integrated resource consumption data with work-cell capacity and sales demand to produce schedules and product flow plan for factory. Plans were optimized for max-throughput or min-latency.

Work Experience:

The Mind Research Network (MRN), Portland, OR (2014-Current)
Software Engineer

- Developed fully offline-capable native web-app for serving clinical assessments/questionnaires.
- Developed OS native distributed neuro-imaging analytics program, providing ease of data sharing without centralized management of TBs of imaging files.
- Developed management tool suite for neurological research studies.
- Implemented automated testing for suite, including cross-browser unit tests, back-end unit tests, and end-to-end selenium based browser tests.
- Transitioned centralized server application(s) to distributed, non-blocking, micro-services model.

LAM Research, Tualatin, OR (2012-2014)
Automation/Test Engineer

- Developed multi-peer application to auto-generate factory-wide material demand (digital kanban). Algorithms tuned to determine which material to schedule based on realtime factory flow, product part consumption rate, and environmental factors.
- Developed synchronization package to map work-cell material assignment data from engineering system into logistics preparation ("kitting") recipes for 10,000+ part products.
- Developed capacity reconciliation package to visualize and adjust under-utilized or over-utilized work-cells for production teams (e.g. planning, master scheduling, manufacturing).
- Developed centralized eDMS implementation for engineering and factory community.
- *nix server ops for above services.
- Designed test processes and fixtures for 30+ products across four product families.
- Developed mechanical sub-systems with core design teams, commonly involving wafer transfer systems.

Novellus Systems, Inc, Tualatin, OR (2010-2012)
Manufacturing Engineer

- Carrier Ring cost reduction project, +\$100k annual savings.
- Performed engineering design reviews, specifically targeting Design For Manufacturing (DFx). Integrated product changes into manufacturing processes.
- Transitioned PECVD product lines from pilot-manufacturing structure into "high" volume manufacturing.
- Designed fixtures and maintenance for assembly and test departments (lift systems, alignment jigs, electrical testing utilities).
- Managed factory recovery from nitrogen plant explosion.
- Validated supplier components via inspection, measurement, and performance testing.

Intel Corporation, Hillsboro, OR (2009)

Digital Health Group: Manufacturing Engineer

- Developed high and low level manufacturing processes to ensure proper assembly and test of product at contract manufacturing facilities
- Drove value-added change to enhance product quality and reduce BOM costs via engineering analysis and experimental design
- Setup local manufacturing environment and procedures for all spares products

Prior employment truncated (intern & non-engineering positions). Available on request!

Honors / Leadership / Activities:

Honors & Awards:

Core team member of the AmpersandJS front-end framework. <http://ampersandjs.com/> (2015)

Hack PDX Schools - SendGrid Winner, improved notification and logging of 3D printer monitoring package (2014)

2x LAM Research Above & Beyond, \$100k+ cost reduction, new product integration (2013)

3x Novellus Above & Beyond

2x new product integration (2012)

1x outstanding support (2012)

Burgess-Tektronix Award - Most Outstanding Senior (2010)

Oregon State University Honor Roll (Fall 2005-Present)

Oregon State University Diversity Achievement Award (Fall 2005-2009)

Callahan Engineering Scholarship Award (Fall 2007)

Drucilla Shepard Scholastic Award (Fall 2005)

William D. and Ruth D. Roy Award (2007-2009)

West Johnson and Elizabeth Johnson Lasselle Scholarship Award (Fall 2005-2008)

Ida M. Crawford Scholarship Award (Fall 2007)

SME Myrtle & Earl Walker Award & Wayne Kay Award (2008, 2009)

Leadership & Service

Handy - Portland technical trade volunteers (2013-Present)

3oClock People - SE Portland soup kitchen (2013-Present)

NCompass Project Committee Member (2012-2014)

NCompass community volunteer (2012-Present)

Imago Dei community volunteer (2012-Present)

Math Tutor: Pre-algebra through Integral Calculus (2005 - 2013)

Alpha Pi Mu Industrial Engineering Honors Society, President (2007-2010)

Doxology & Stone Soup Kitchen Volunteer (2008-2010)

Corvallis Church of Christ Volunteer (2006-2009)

St. Vincent DePaul Volunteer (2001 - 2009)

MSSC Leader, Baja Mexico Volunteer Service (2000 - 2001)

Activities

SW Tech Meetup Regular: PDXNode/Python/Angular

SME - Society of Manufacturing Engineers (2007-Present)

Portland Wheelmen Cycling (2010-Present)

IIE - Institute of Industrial Engineers (2007 - 2010)

OSU Cycling (2005 - 2010), CAPA Cycling Team (2008 - 2010)

OSU Club Ultimate Disc (Spring 2005 - 2008)

Misc Accomplishments

Designed 3D printer, RepRap deltabot-type. Published as OpenHardware, created by many. <http://reprap.org/wiki/COSsel> (2013)

References available upon request

Please visit my [website \(cdaringe.com/about\)](http://cdaringe.com/about) for additional details.