Jason Andrew Kintz

Bend, Oregon

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Objective

Motivated, self-starter seeking software engineering position that would leverage my expertise in manufacturing operations and optimization.

Skills

Python	SQL	Git/Github	JMP	Excel
Pandas	NumPy	Matplotlib	Seaborn	Tableau
Simio	BPMN	Autosched AP	APF Formatter	AutoCAD
Lean	Six Sigma	Capacity Modeling	WIP Management	CAPEX

Education

Master of Engineering degree, Industrial Engineering September 2009 – June 2010
Oregon State University, Corvallis, Oregon Cumulative GPA: 3.3
- Accelerated pace, completed in 3 terms

Bachelor of Science degrees, Industrial Engineering & Manufacturing Engineering September 2005 – June 2009
Oregon State University, Corvallis, Oregon Cumulative GPA: 3.5
- Double major with a Business & Entrepreneurship minor

Experience

Consultant, Data Analytics and Industrial Engineering June 2019 - Present
Summit Rock LLC, Bend, Oregon
- Data Analytics and Automation - helping clients understand, monitor, and grow sales in a calculated and strategic way
  - Build custom data solutions (python: pandas, matplotlib, jupyter notebook)
- Developed and launched a monthly data analytics subscription service for the direct sales industry
  - Generate baseline (beginning of month) sales report
  - Lead beginning of month strategy and goal setting zoom for clients
    - Generate detailed sales forecast
    - Assign customers to a segment (customer category) based on order behavior
    - Refine marketing campaigns for target segments (email and text message campaigns)
  - Deliver weekly progress reports throughout the month comparing current sales snapshot to baseline

Senior Industrial Engineer December 2015 – June 2019
Zymergen, Emeryville, California
- Educated organization and infused manufacturing best practices at an early biotech startup
  - Trained over 50 colleagues on **Factory Cycle Time management** concepts and built a strong foundation for **WIP tracking**
  - Implemented **Semi E10 Tool State** tracking for production equipment
  - Grew the Industrial Engineering team headcount from 1 to 4 full-time engineers
- Discrete Event Simulation (**Simio**)
  - Created a data-table driven Discrete Event Simulation model for strategic/tactical analysis and scheduling
  - Conducted operator interviews and defined over 25 process flows which largely informed the homegrown MES design
  - Wrote over 100 pages of MES/MOM design documents for automated data feeds required for simulation model (Flow/Route definitions, WIP Snapshot, Starts Plan, Equipment Hierarchy, Equipment Qualifications and Availability Schedule, Operator Schedules and Qualifications, Parameter Configuration Service/Bill of Parameters storage)
- Consulted on Manufacturing Execution System (**MES**)/ Manufacturing Operations Management (**MOM**) design
  - Collaborated with internal Software team in building MES solution from scratch
  - Refined 12 key process modeling guidelines for leveraging Camunda **BPMN** (Business Process Model Notation) to define manufacturing workflows
  - Architected a strong MES foundation for internal software team to build upon:
    - Parameterized process model hierarchy with concept of production and rework Flows

- Identified annotation method for unique stepID's in all process models to send relevant **WIP transaction**s (arrival to queue, process start, process complete) to a data warehouse table
- Authored design documents for WIP Snapshot and a custom BPMN model parser to generate **Route/Flow definitions**

- Led Manufacturing Intelligence **(MI)** software integration effort
  - Owned project management responsibilities for a multi-year, custom adaptation of FabTime's cycle time management software (WIP tracking, lot history, process vs. queue time, equipment utilization, OEE, productive moves)
- Life Sciences/Biology domain knowledge with applied automation
  - Demonstrated a broad IE methodology roll out in DNA Build, Strain Build, High Throughput Screening and bench scale Fermentation

Senior Industrial Engineer June 2010 –December 2015

Onsemi (formerly ON Semiconductor), Gresham, Oregon

- Industrial Engineer for 4 manufacturing areas: Photolithography, Implant, Etch, and Probe areas
  - Provided analysis and recommendations for daily manufacturing issues, lead improvement projects, maintained tool qualification plans, and found creative ways to gain capacity on bottleneck toolsets
  - Applied lean principles and six sigma methodologies (kaizen, waste elimination, error proofing, OEE, DMAIC process)
- Performed advanced data mining, statistical analysis, and data visualization (JMP, SQL, Tableau, Excel, APF Formatter)
  - Wrote over 30 scripts to automate capacity model input derivation, tool matching analysis, and outlier monitoring
  - Saved IE team the equivalent of 1 Industrial Engineer's time per year
  - Selected as a 2015 Global Industrial Engineering Initiative to install at other manufacturing sites in Idaho, Belgium, Czech Republic, Japan, and Malaysia **(read more at JasonKintz.com)**
- Capacity Modeling
  - Ran weekly starts analysis (**Autosched** AP dynamic modeling) and led the review meetings with management
  - Created, maintained, and ran area micro models (AutoSched AP static and dynamic modeling)
  - Drafted automated overall equipment effectiveness (OEE) report logic for tools in 4 main manufacturing areas
- Project Management – Chemical Barcoding and Validation project
  - Spearheaded barcode scanning solution to record and validate chemicals at point of use **(read more at JasonKintz.com**)
- **ERP**/Inventory Management experience (Oracle EBS, Reorder Point Planning, Min/Max Planning)
  - Used real-time inventory data from RF barcode scanner project to define a reorder point planning system for fab chemicals (Oracle) and epitaxial substrates (excel)
- Fab Layout and Change Control process (**AutoCAD**)

MicroSystems Engineering Inc., Lake Oswego, Oregon June 2008 – September 2008

Manufacturing Engineering Intern

- Updated existing value stream map with over 70 process steps and assisted in defining future state map
- Achieved goal of installing a kanban based replenishment system for all raw materials in production
- Reduced WIP between operations in a cell by 40% with controlled product build (in-process kanban) technique
- Eliminated paper based (ESD risk) control charts by scripting templates that auto archived to network storage

Honors and Awards

Onsemi Spotlight Award – ON Semiconductor, Oregon May 2014

Received highest tier "ON Spotlight" award for capacity model input automation project **(read more at JasonKintz.com**)
Project selected as a 2015 Global Industrial Engineering Initiative to install at 6 other manufacturing sites worldwide

President – Oregon State University Chapter September 2007 – March 2009

Surface Mount Technology Association, Corvallis, Oregon

Treasurer – Oregon State University Chapter March 2008 – March 2009

Institute of Industrial Engineers, Corvallis, Oregon

Industrial Engineering Honor Society, Inducted Member – Alpha Pi Mu September 2007

Oregon State University Chapter

References available upon request