

# Darrell L. Nelson II

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## OBJECTIVE

**Senior Data Analyst** with experience in Flash Memory and semiconductor equipment who is actively seeking opportunities to work with big data on complex and novel problems that will positively impact the industry and the company's bottom line. I am motivated, hard-working and flexible. **Key skills include:** thriving under pressure, productive & focused multi-tasking, objective approach to problem solving, leading by example, and fostering strong teamwork environments.

## WORK HISTORY

**Applied Materials Inc.** Boise, ID 2016 – 2018  
Process Support Engineer

## PROFESSIONAL EXPERIENCE

### Producer Project Manager

- Oversaw process development life cycle of five generations of flash memory on the Producer workbench with key focus on performance and cost
- Worked with customers (Micron Technology Inc.) in R&D and High-Volume Engineering to ensure quality performance of the Producer tools and process from: Proof of Concept, Optimization, Process Sensitivity, Hardware Variation, and Transfer to High Volume Manufacturing (HVM)
- Held several weekly meetings and presentations, both working and upper management level, to internal or customer multi-disciplinary teams which consisted of project objectives, status, issues, and plans for the Producer projects
- **Key Achievement:** Integral factor in winning contracts for >\$20M in the span of two years

### Technology Expert

- Head engineer for day to day issues during process transfer to High Volume Manufacturer
- Led weekly internal task force meetings to align and execute on customer driven priorities
- Designed, coordinated, implemented, and supervised multivariate tests on all major/minor process and hardware changes for all projects
- Primary point of contact for process and hardware related issues/failures seen in the R&D and HVM facilities
- **Key Achievement:** Taught production teams in Boise, ID and Singapore facility to enhance processes and tool capabilities for High Volume Manufacturing

### Chamber Qualification

- Developed novel hardware testing strategies on the Producer platform to ensure hardware performance is within normal tolerances
- Created process sensitivity DOE to ensure process window was large enough to account for normal tool to tool variation
- **Key Achievement:** Responsible for starting up new tools and chambers in R&D facility

### Customer Relations

- Held bi-monthly meetings with customer counterparts to align on issues, results, new techniques, timelines, and hardware implementation
- **Key Achievement:** Built customer rapport by organizing group lunches and dinners

### New College Grad (NCG) Recruiter

- Led group and one-on-one discussions about the potential career opportunities at Applied Materials at University of Washington - Seattle
- **Key Achievement:** Successfully recruited and hired from Washington University in St. Louis
- Published Paper in "Applied Materials Journal of Engineering & Technology" Spring 2018
- Selected Speaker at Applied Materials Dry Etch Conference Summer 2017

## PAPERS AND CONFERENCES

## TECHNICAL SKILLS

**Programming** Proficient: Python, R, SQL, MATLAB & Octave  
**Languages:**

**Software:** Tableau, Google Analytics, JMP, Eye-D, Quartz PCI, MindManager, Spartan, Mercury & Microsoft Office Suite

## EDUCATION

**M.S. Applied Data Science** 2018 – Dec 2019  
Syracuse University, Syracuse, New York GPA: 3.95

**B.S. Chemical Engineering** 2014 – 2016

Washington University in St. Louis, St. Louis, Missouri

- National Society of Black Engineers, Chapter Development Executive Chair
- Gustav Kurt Mesmer Scholar

**B.A. in Chemistry** 2011 – 2014

Lewis & Clark College, Portland, Oregon

- Varsity Football, Co-Captain | Multicultural Union, Liaison | STEMs for Youth, Volunteer
- Leadership & Service Student Award | Miller Science Scholar

## INTERESTS

Running, weight lifting, sports, coding, anime, spending time with niece and nephew