MICHAEL P. LANZA
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OBJECTIVE
Possesses advanced knowledge in the areas of statistics, mathematics, analytics, and engineering. Adept at complex problem solving with a passion for programming, Data Science, and Data Analytics.

EDUCATION
DREXEL UNIVERSITY, 2012
Philadelphia, PA

M.S. Mechanical Engineering

CONTACT

405 Dickinson Street
Philadelphia, PA 19147

631-275-4090

lanzamike@gmail.com

LINKS

/mike-lanza

GitHub /lanzman

stack overflow /mike-lanza

kaggle /lanzman

8/25/2017

Einstein Center
5501 Old York Rd
Philadelphia, PA 19141

To Whom It May Concern,

My name is Michael Lanza and I am applying to be your newest All-Star Data Scientist at **Error! Reference source not found.**. I am a professional Engineer with 7 years of experience constructing insights from data rich environments to drive business and engineering solutions.

My professional work experience has been in the areas of IT Consulting, Manufacturing, and Product Design. Through my experience, I have developed advanced skills in the areas of data analysis, application development, process improvement, and project management. My career path has been driven by my insatiable desire to overcome new challenges and grow both professionally and personally.

I pride myself on my ability to tell a story utilizing data and make data-driven decisions that leave a positive and lasting impact. Using these skills, I can uncover insights, develop applications, and utilize machine learning to shape the future of my career at **Error! Reference source not found.**.

In addition to my formal education, I am a perpetual student. I have completed multiple online Data Science and Analytics courses through DataCamp, edX, and Coursera. I continually participate in Kaggle competitions and contribute to the Data Science and Analytics community, further developing my machine learning knowledge. I'm constantly improving my SQL, Python, and R skills in Machine Learning applications.

Thank you for your consideration for this position, I look forward to showing you my true potential as your next **Error! Reference source not found.** at **Error! Reference source not found.**.

Sincerely,

Michael P. Lanza

MICHAEL P. LANZA

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Professional Engineer with 7 years of experience constructing insights from data rich environments to drive business and engineering solutions. Possesses advanced knowledge in the areas of statistics, mathematics, analytics, and engineering. Adept at complex problem solving with a passion for programming, Data Science, and Data Analytics.

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SKILLS

Software: R, Python, MySQL, GNU Octave, MATLAB, Maple, VBA for Excel, Microsoft Office Enterprise, Agilent Vee, LabVIEW, Visual Basic Express

Courses/Certifications: Datacamp's Data Scientist with R Track, Datacamp's Data Scientist with Python Track, Microsoft Professional Program for Data Science, UC San Diego's Data Science MicroMasters Program, Stanford University's Machine Learning

Projects: Kaggle Digit Recognizer, Kaggle Titanic Machine Learning from Disaster, Instacart Market Basket Analysis.

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EMPLOYMENT EXPERIENCE:

Troemner	Thorofare, NJ
Product Design Engineer	September 2016-Present

- Project manager for new laboratory equipment and medical devices in development (Released latest product line 2 months ahead of schedule).
- Responsible for timeline management, product and component design optimization, cost analysis, vendor selection, performance and safety testing, regulatory approval, product manufacturability, and release to market.
- Develop test protocols and perform data analysis utilizing Python and the Pandas, Numpy, and Matplotlib packages to validate material usage in new product design.
- Liaison to the global business division responsible for RMA root cause analysis and resolution in addition to product portfolio expansion in global markets.

Troemner	Thorofare, NJ
Product Design Engineer	July 2015-September 2016

- Drove assembly process improvements through statistical analysis of production and return data based on Lean/Six Sigma principles using Excel and Python with the Pandas, Numpy, Matplotlib, and Scikit-learn packages.
- Developed custom software, reports, and dashboards using VBA, Excel, MySQL, and Python to improve the capture and analysis of assembly data in real-time (Automated reporting process and reduced generation time from 2 days to 10 minutes).
- Resolved in-process production failures as they occurred to identify key areas for improvement (Reduced Block Heater build time by 25%).
- Lead Monthly Quality Meetings and implemented action items to improve production efficiency based on custom insights and production KPI's.
- Analyzed all future and current product design changes to provide alternate solutions and improve manufacturability.
- Managed, developed, and implemented a company-wide Non-Conforming Material Process to identify top scrap contributors based on volume and value (Reduced Scrap Material by 10%, $200,000).

Rieker Inc.	Aston, PA
Manufacturing Engineer	February 2013-July 2015

- Managed all production lines and met KPI goals on a weekly and monthly basis.
- Resolved production issues through research and statistical analysis of historical test data by implementing solutions to prevent future occurrences (Improved production yield by 40%).
- Developed custom software utilizing Excel, VBA, MySQL, Navicat, and .NET to record and analyze production data through the generation of summary reports and dashboards.
- Increased production output, reduced testing time, and reduced material scrap using time studies and other Lean/Six Sigma production practices (Reduced calibration and validation time by 20%).
- Generated detailed flow charts and written procedures to visualize and document production processes.

HighPoint Solutions	East Norriton, PA
IT Consultant	July 2012 2013-February 2013

- Provided support and development for the Trackwise and Master Control software suites at various healthcare and pharmaceutical client sites.

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POSITION TITLE

- Developed detailed documentation including process flow charts and test scripts to illustrate document life cycles and validate software.