ERIKA PARKER

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EDUCATION

Northeastern University, Boston, MA   **May 2019**
Master of Science in Engineering Management   GPA:3.74
Minor: *Data Analytics*
Relevant Courses: Data Mining in Engineering, Database Design and Data Management, Visualization Engineering, Data Management and Data Processing, Probability and Statistics, Engineering Project Management, Economic Decision Making

Anna University, Chennai, India   **May 2017**
Bachelor of Engineering in Mechanical Engineering (Minor in Management)

TECHNICAL SKILLS

Statistical and Analytical tools:	R, Python, Microsoft Excel, Google Analytics, Minitab
Business Intelligence:	Tableau, Microsoft PowerBI, Qlik Sense, Gephi, SSRS
Database Management:	MySQL, MS SQL Server, SSMS, SSIS, SSAS, Toad DataModeler
Soft Skills:	Excellent Communication Skills, Strong Work Ethic, Time Management Skills, Adaptable

PROFESSIONAL EXPERIENCE

Northeastern University, Boston, MA

Information Technology Services   **Dec 2017 - Present**
Pro Customer Experience Technician/ Data Analyst
- Assisted over 1000 clients from the Northeastern community with technical troubleshooting and resolution of issues with software, hardware, networking and 20 university applications.
- Analyzed usage trends from loaner laptop surveys and devised an inventory system that slashed costs by 35%
- Spearheading a project on analyzing AV equipment outages to schedule preventive maintenance checks which could minimize equipment failure and classroom calls by 60 –70%

Cyient Insights, Hyderabad, India   **May 2017 - Aug 2017**
Data Science Intern
- Built a stock market recommender engine by harvesting Twitter feed via text mining and sentiment analysis and achieved an accuracy of 74% for a testing period of 2 weeks
- Developed over 7 interactive dashboards for tracking KPIs and reporting to management and clients
- Collaborated with the core analytics team and assisted with data processing and visualization for the predictive analysis of elevator breakdown for 'ThyssenKruppElevator'

Indian Institute of Management, Lucknow, India   **Jul 2017 - Aug 2017**
Data Analytics Intern (Remote)
- Performed data analysis in Finance, Marketing, Operations and Human Resource Management by implementing statistical and visual analytics techniques on 4 cases from Harvard Business Review
- Applied graphical and regression analysis to identify factors that determine hotel rooms rents for the capstone project and developed a model with an accuracy of 87% for metropolitan city, star rating and tourist destination

ACADEMIC PROJECTS

Northeastern University, Boston, MA

Breast Cancer Predictive Analytics   **Feb 2018 – Apr 2018**
- Analyzed cancer cell data for the predictive diagnosis of breast cancer based on the cell's physical characteristics using Neural Networks and Decision Trees
- Eliminated highly correlated variables and preprocessed data using Principal Component Analysis
- Acquired an accuracy of 95.69% using Neural Networks and 92.93% using Decision trees

Statistical Analysis of Hubway Stations in Boston   **Nov 2017 – Dec 2017**
- Performed Hypothesis Testing and Analysis of Variance (ANOVA) on visitor volumes of Hubway stations in 3 prime locations in Boston
- Conducted time series analysis to identify seasonal usage patterns of various docking stations
- Recommended measures for specific stations to match visitor volumes which could reduce wastage by 36% and increase revenue by 48%

Ron **Weasley**

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Forward-thinking and entrepreneurial mechanical engineer with co-op experience at iRobot, Amazon, and Philips. Achieved 1st place in robotics competition by leading an interdisciplinary collaboration. Blends drive for excellence with humor and generosity.

EDUCATION

Northeastern University, Boston, MA   May 2018
*Bachelor of Science in Mechanical Engineering **GPA**: 3.8 | Master of Science in Engineering Management **GPA:** 4.0*
***Honors**: Dean's List (2013-Present), Galante Business Engineering Fellow, Capstone Design Honorable Mention*
Capstone Project: End Effector For Bridge Inspection and Maintenance Robot
- Designed and fabricated an end effector to support a 60 lb. robot while traversing steel surfaces
- Created an Arduino driven actuation system, that focused on using mechanical advantage to adjust magnetic force
- Optimized system based on free body diagram analysis and experience in prototyping
- Research in magnetically aligning 3D printed polymers, and guiding stress/strain concentrations

SOFTWARE SKILLS: SolidWorks, Arduino, MATLAB, C++, Swift, Python, AutoCAD
SOLIDWORKS SKILLS: Analysis, Motion Study, Rendering, Surfacing (Beginner)

PROJECT MANAGEMENT EXPERIENCE

Dragon Innovation, Boston, MA   December 2017 – Current
New Project Development Intern
- Created new system that optimized task tracking for far east project managers and gave more insightful data to US team
- Used Excel to generate a tool that would automate the output of useful metrics based on a master task list and schedule
- Implemented tool in the far east to begin the switch over towards a fully automated software product

Star Rapid, Zhong Shan, Guangdong, China   January – June 2017
Engineering Business Development / Project Management Co-op
- Acted as the interface between US and China, overseeing projects for western engineers
- Ensured on time delivery and quality standards were met for key accounts
- Ran competitive analysis against 5 companies: created report that advised top management on improvements
- Independently learned SalesForce for account management and business development
- Facilitated customer visits and interacted directly with engineers to ensure project quality and schedule

MECHANICAL ENGINEERING EXPERIENCE

Product Insight, Acton, MA   January – June 2016
Mechanical Design Co-op
- Designed and fabricated proof of concept products using SolidWorks and hand mill for client demonstrations
- Ran electromechanical systems using Arduino, Teensy, and Raspberry Pi
- Coded iPhone application for demonstrating customer interaction with robotic drink maker
- Generated professional CAD drawings to be sent out for manufacturing

Keurig Green Mountain, Burlington, MA   January – July 2015
Research and Development Engineering Co-op
- Developed intricate injection molded pods for Keurig Kold
- Validated design using structured testing method then presented findings at weekly meetings
- Developed multiple electromechanical systems using Arduino programming that allowed for testing of brewers and pods

Mide, Medford, MA   December 2015 – January 2016
Mechanical Engineering Intern
- Designed a test system for high frequency accelerometers that tripled the efficiency of the quality department
- Fabricated all designed parts using hand mill and self-generated drawings

BACKGROUND

Avid jazz saxophonist, diehard Boston sports fan, world traveler, and a healthy addition to the company soccer team.