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Experienced manufacturing engineer with a strong desire to transition into the software development world. Exhibits a robust background in problem-solving, troubleshooting, project management and cross functional team collaboration to drive continuous improvements. Along the manufacturing engineering career path, several programming related projects were encountered, further enhancing the hunger for a software development role. This ultimately culminated with the completion of a master's degree in computer science, which provided a formalized learning experience in an academic environment from an accredited institution.

PROFESSIONAL EXPERIENCE

- **Manufacturing Engineering Specialist | L3Harris Technologies | 05/20 – Present**
 - Decreased cycle time by 37% through the programming and development of a new robotic soldering station
 - Developed Raspberry Pi Python GUI application to record employee badge scans and meet electrostatic discharge compliance regulations
 - Data mine supplier quality and estimating data, extracting meaningful analysis to provide to respective teams
 - Manage new capital expense equipment projects, such as bridge crane systems, from concept to implementation
- **Manufacturing Engineering Senior Associate | L3Harris Technologies | 04/18 – 05/20**
 - Development of quality data entry forms and databases via Excel VBA and Access for historical traceability and performing data analysis techniques
 - Programming various Excel VBA add-ins to automate and error proof data analysis tasks
 - Automate the creation of test report data documents through the querying of a database and subsequent inputting of results to a MS Word document, resulting in both a 1 hour/document time savings and the elimination of manual data entry errors
 - Collaborate with design and systems engineering teams, providing improvements via Engineering Change Requests/Engineering Change Orders (ECR's/ECO's)
 - Redesign floor layout to accommodate new product requirements in an ever-changing program-based manufacturing environment
 - Creation and maintenance of standard operating procedures, process documentation and label printing files
 - Daily support of production lines, including conducting preventative maintenance tasks and facilitating employee training certification
 - Management of budgets used for the procurement of manufacturing support items
 - Continuous improvement project leader, 5S and Safety Champion
- **Manufacturing Engineering Technician | Harris Corporation | 07/17 – 04/18**
 - Creation of methods and procedures to improve quality control of manufacturing processes with automation and standardization via Excel VBA add-ins and label printing SDK integration, saving 2+ hours/week and eliminating manual data entry errors
 - Expedite the disposition and processing of defective material returns (100+ instances/annually) to meet program ship date requirements
 - Utilize root cause problem solving techniques to implement corrective actions for quality issues, such as eliminating intermittent cable connection failures
- **Manufacturing Process Engineer | Hypertherm Inc | 04/12 – 07/16**
 - Implementation of a robotic automated cell, focused on the development of a quality plan for automatic inspection, increasing output by ~200%
 - Creation of real-time updating pulse point TV monitors to display status of machining and assembly area output through Excel VBA
 - Collaboration with laser marking vendor to improve front end software programming to eliminate quality issues
 - Creation and maintenance of quality data collection, and analysis of process capability studies, which resulted in a decrease of scrap from 2.5% to under 1.5%
 - Led assembly press operation scrap reduction project resulting in a ~90% reduction of non-conformance's
 - Conducted GR&R and tool life studies, saving \$0.001/unit (~\$50k annually)
 - Maintenance of all routings and BOM's, procedure documents and facilitating employee training certification

EDUCATION

- **Master of Science in Computer Science | Rochester Institute of Technology | 01/18 - 05/21**
 - GPA: 3.82/4.0
 - Cluster/Focus: Intelligent Systems
 - Dashboard Camera Accident Prediction Project [Computer Vision]
 - Developed an LSTM recurrent neural network deep learning model, which was trained on SLAM and bounding box features, to predict accidents
 - IoT using GPS, Data Visualization, and Anomaly Detection Project [Big Data Analytics]
 - Process and clean raw GPS data into KML format for Google Earth visualizations, using techniques such as noise reduction and anomaly detection
 - Performed machine learning classification on routes to mark locations where a vehicle stops, as well as taking left and right turns
 - Agglomerated marking location data across all routes using DBSCAN clustering algorithm
 - Exploring Synchrony Using Prosody Signals [Capstone Project]
 - Trained a CNN + LSTM model using Mel spectrogram data for speech emotion recognition, to calculate the level of synchrony between speakers
- **Bachelor of Science in Mechanical Engineering | Clarkson University | 08/07 - 05/11**
 - GPA: 3.46/4.0
 - Dean's List: Fall/Spring 2007-2011
 - Minor: Mathematics

SKILLS

- **Programming Languages/Technologies:**
 - Python [Pandas, Numpy, Matplotlib, Sklearn, PyTorch, TensorFlow, Librosa], Java, Excel VBA, Django, R/R-Studio, SQL, MySQL Workbench, Pentaho/Kettle, JavaScript, HTML/CSS, Raspberry Pi, Windows/Linux OS
- **Computer Software:**
 - SolidWorks, AutoCAD, SharePoint, Microsoft Excel/Word/PowerPoint/Visio/Access, Minitab, Oracle EBS/EIS, Oracle Agile PLM
- **Professional Development:**
 - Project Management [WPI], Laser Marking [Rofin], Metal Cutting Applications Training [Kennametal], GD&T [Applied Geometrics, Inc.], Green Belt Certification [Hypertherm], Excel VBA [Accelebrate]