Ian Danas

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Work Experience

Fives DyAG Corporation, Seattle Washington, Controls Engineer   July 2021-Present
- Developed sophisticated and intuitive human machine interfaces using Ignition (Inductive Automation), CCW (Rockwell), GX Works3 (Mitsubishi)
- Completed 2 small scale projects from start to finish (3-5 months) including both HMI and PLC components
- Took over as main SCADA developer on 36 PLC system project for shipping fulfillment center (1+ years)
- Developed Python scripts to automate tasks within ignition designer to reduce time taken for manual tasks by 75%
- Setup and programmed query scripts within SQL databases using Microsoft SQL server management studio

Design and Automation of on Campus Brewery (senior year capstone project)
- Co-Team Lead on team of four students working alongside engineering professionals to accomplish student driven project
- Developed functional documents used in automation of Mash Mixer within brewery
- Converted functional documents to Logix Controller-Based Batch and Sequencing Solution using Rockwell's Recipe Editor
- Created project website to display project status and documents using HTML: https://projects-web.engr.colostate.edu/ece-sr-design/AY20/brewery/

Fog Rose Ice Cream Boutique, Bellevue Washington, Ice Cream Maker   Summer 2018
- Hired on the first team of employees at startup location for serving made-on-demand liquid nitrogen Ice Cream
- Improved customer satisfaction by brainstorming workflow and ice cream creation process improvements that increased overall production efficiency
- Participated in company meetings to help in brainstorming process for ways to increase customer satisfaction

Education

Colorado State University, Fort Collins, Colorado   **GPA: 3.29**
  Bachelor of Sciences in Electrical Engineering   May 2021
University of Washington, Seattle, Washington
  Full Stack Web Development Bootcamp   June 2023

Other Relevant Skills

Full Stack Web Development
- Proficient in writing easy semantic HTML and CSS code
- Experience in developing front end DOM manipulation using JavaScript and jQuery
- Ability to set up server-side code for RESTFUL API routing and framework rendering
- Implemented SQL scripts for creating databases on server-side in mySQL and sequelize to implement CRUD functional websites

Programing Experience / Data Structures and Algorithms/Hardware Experience
- Proficient in writing and interpreting various programming languages including Python, MATLAB, Java, C, and Arm assembly
- Ability to implement and track various data structures in Java (Hash Maps, B+ trees, and B trees)
- Ability to use and run tests using oscilloscopes and logic analyzers

Machine Learning Foundations and Practice
- Applied machine learning algorithms and tools for predictive modeling and supervised learning
- Created scripts to predict California housing prices using linear regression and nearest neighbor classifiers
- Proficient in using NumPy, pandas, sklearn, and matplotlib to implement nearest neighbor classifiers, linear and polynomial regression, cross validation, decision trees, and neural networks

Computer Networks
- Experience in socket programing for both TCP and UDP protocols
- Proficient in using Linux and Windows networking commands in order to troubleshoot network related issues

Hardware and Software of Embedded Systems
- Performed simulations in SystemC and gem5 in order to optimize systems
- Implemented software optimization techniques to improve runtime performance

Robot Programming and Simulation
- Completed MATLAB project to control the motion of arbitrary robot manipulators to achieve a desired trajectory for the joints using forward and inverse kinematics
- Wrote MATLAB script to specify three-dimensional motion for both rigid bodies and articulated objects