


# Aydan Wessels

Florida Atlantic University: Msc in Applied Artificial Intelligence

+1 772 267-6782 

[linkedin.com/in/aydanwessels](https://www.linkedin.com/in/aydanwessels)

[aydanwessels@gmail.com](mailto:aydanwessels@gmail.com)

## PERSONAL STATEMENT:

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I've had a love for the sciences from a very young age. What started as a special interest in marine organisms eventually blossomed into a litany of others related to the exploration of impossible to reach frontiers. This meant robotics and ROVs, submersibles, and the tracking and analysis of complex data sets such as epigenetics and the interactions of types/species.

Somehow rather than exploring the depths, life led me to end up as a professional developer. Though in my downtime, I'm still an explorer at heart.

I can generate clean and easy to maintain code with the best of them. I am excellent communicator, versed in all the usual flow charts and graphics, as well as using git and publishing documentation. I not only know how to RTFM, but I can also communicate esoteric concepts clearly for the layman or shareholder.

I have done my share of Project Management, hosting meetings and delegating work where needed. If I don't know a language, it would be absolutely no trouble to promptly learn it.

## KEY ACHIEVEMENTS:

- Moved a manufacturing company into the modern era as the CIO. This included custom Commercial Intelligence solutions, a relational DBMS of more than 40,000 entries, as well as hiring and delegating.
- Used knowledge of low-level machine code to reverse engineer the ladder logic on an old PLC for a number of different types of machines. These PLCs were no longer supported or in production by Siemens. Deployment of upgrade was a success. Many of these machines had 40+ sensors, including flow, frequency, temperature, and pressure.
- Used a classification model to predict mechanical and hydraulic failures in pumping systems to within 98% accuracy.

- Worked on POSIX and GUI based systems for Amazon.com. Part of the task load was training software to retrieve data from these systems, and store them reliably in a more workable database. This database was used for predictive models. RL model was able to predict within 3%.
- Attended and hosted meetings, generated charts, graphics and presentations to show data trends and lead times.
- Designed and built control panels for industrial equipment. Provided a system for automated updates pushed through remote network over GSM. This included proprietary documentation.
- Generated and updated CAD models.

## SKILLS

● Python, C, SQL	● Version Control	● Documentation
● Statistics, Higher Math	● High Level Languages	● Visualization/Flow
● Machine Learning	● Library Deployment	● Computer Vision
● Bioinformatics	● Low Level Language	● Assembly
● Algorithms	● Pseudocode	● Presentations
● Analytics	● Hybrid Systems	● Debugging
● Search/Optimization	● Reinforcement	● Automation
● IC/QA	● Robotics	● PLCs/Control Panels
● NDE	● Data Science	● Machine Code
● Deep Learning	● Control Systems	● Diagrams/Circuitry
● Microsoft Suite	● Cloud Systems	● SAS Systems
● Spanish/Japanese	● Cum Laude	● President's List

## PROFESSIONAL HISTORY

EDX, <b>Developer</b>	Arlington, TX	(3/2019 - Present)
Team Industrial Services, <b>Project Manager</b>	Billings, MT	(2/2014 - 3/2019)
Irrigation Craft, <b>CIO</b>	Boca Raton, FL	(7/2013 - 2/2014)
Amazon.com, <b>Developer</b>	Phoenix, AZ	(12/2011 - 7/2013)