

Dawson Pena

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SUMMARY

Early career utilities maintenance trainee with supervised preparation in water and wastewater equipment, pumps, valves, motors, mechanical systems, basic electrical troubleshooting, hydraulic systems, pneumatic systems, and compressed air. Practical lab work covered inspection, **preventive maintenance**, fault isolation, equipment handling, and safe use of hand, power, pneumatic, and test tools. Training included centrifugal and **positive displacement pumps**, motor driven equipment, valves, gear drives, instrumentation, and utility style maintenance records. Familiar with CMMS work orders, spreadsheet documentation, equipment condition reviews, and structured corrective action. Holds a valid **Florida driver's license** and **OSHA 10 Hour General Industry** training. Prepared for outdoor field assignments, physical work, changing locations, emergency response, and continued development toward independent utility maintenance.

EDUCATION

Industrial Maintenance Technology Certificate	2026
Polk State College GPA: 4.0	<i>Winter Haven, FL</i>
<i>Coursework: Water and wastewater equipment, pumps and valves, electrical troubleshooting, hydraulic systems</i>	
High School Diploma	2024
Lakeland Senior High School GPA: 4.0	<i>Lakeland, FL</i>
<i>Coursework: Mathematics, science, technical education, workplace communication</i>	

TECHNICAL SKILLS

- **Pumps:** Centrifugal pumps, Positive displacement pumps, Submersible pumps
- **Valves:** Check valves, Control valves, Plug valves
- **Motors:** Fractional horsepower motors, Motor driven equipment, Motor inspection
- **Tools:** Hand tools, Power tools, Pneumatic tools
- **Testing Equipment:** Multimeters, Electrical meters, Inspection checklists
- **Hydraulic Systems:** Hydraulic circuits, Flow checks, Pressure checks
- **Pneumatic Systems:** Pneumatic components, Air release systems, Actuator checks
- **Compressed Air:** Compressed air systems, Air pressure checks, Pneumatic maintenance
- **Maintenance Records:** CMMS, Work orders, Spreadsheet records
- **Utility Equipment:** Gear drives, Aeration blowers, Mechanical bar screens
- **Maintenance Methods:** Preventive maintenance, Corrective maintenance, Emergency repair
- **Water Systems:** Potable water, Wastewater collection, Reclaimed water
- **Safety Practices:** OSHA 10 Hour General Industry, Safe lifting, Ladder safety

SKILLS

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|--------------------------|---------------|------------------|------------------------|
| • Preventive Maintenance | • CMMS | • Meters | • Equipment Inspection |
| • Pumps | • Work Orders | • Hydraulics | • Utility Maintenance |
| • Valves | • Hand Tools | • Pneumatics | • Team Communication |
| • Motors | • Power Tools | • Compressed Air | |

EXPERIENCE

Utilities Mechanical Maintenance Trainee	January 2026 to September 2026
Student Lab	<i>Lakeland, FL</i>
Completed supervised utility maintenance training across pumps, motors, valves, gear drives, compressed air components, tools, meters, CMMS records, and safe equipment handling. Presented findings to instructors and peers while building practical judgment for inspection, preventive maintenance, troubleshooting, and corrective work .	
• Inspected centrifugal pumps, small motors, valves, and gear drives using checklists and equipment manuals. • Isolated simulated mechanical and electrical faults with multimeters, pneumatic tools, and basic test equipment. • Completed lubrication, alignment checks, fastener inspections, cleaning, and condition reviews during scheduled maintenance. • Recorded work order status, equipment observations, corrective actions, and parts information in CMMS training logs. • Practiced safe lifting, ladder use, equipment handling, and shop housekeeping during utility maintenance assignments. • Presented diagnostic findings and follow up checks clearly during instructor and peer reviews.	

Water and Wastewater Equipment Reliability Trainee

August 2025 to December 2025

Capstone Project

Lakeland, FL

Built a supervised reliability plan for a training scale water system with **pumps**, valves, piping, a motor, and instrumentation. Connected inspection routines, fault diagnosis, spreadsheet records, and safe operating practices with dependable utility equipment performance.

- Built a maintenance plan for pumps, valves, piping, **motors**, and instrumentation in a training **water** system.
- Compared centrifugal and positive displacement pump behavior under changing flow conditions for a maintenance report.
- Created inspection checklists for **valves**, motor driven equipment, **pneumatic** components, and piping connections.
- Diagnosed seeded faults through visual inspection, meter readings, mechanical checks, and cause elimination.
- Created spreadsheet records covering assets, maintenance intervals, observed conditions, corrective actions, and completion dates.
- Presented reliability findings to faculty reviewers, connecting **preventive maintenance** with safe utility operation.

PROJECTS

Industrial Mechanical and Electrical Systems Project 📅 2025

Assembled training circuits and mechanical drive components under supervision. Used diagrams, drills, grinders, torque tools, pneumatic tools, and electrical meters while evaluating hydraulic and pneumatic conditions. Documented test results, corrective steps, and restoration activities during team maintenance simulations.

LEADERSHIP & AWARDS

- Technical Education Achievement Award, 2026, recognized practical performance in industrial maintenance training.
- Dean's List, 2025, recognized consistent academic performance at Polk State College.

CERTIFICATIONS

- Valid Florida Driver's License 📅 2026
- OSHA 10 Hour General Industry 📅 2025

PROFESSIONAL AFFILIATIONS

- Peer Lab Safety Volunteer, Industrial Maintenance Program, supported safe tool control and orderly training spaces.
- Campus Service Day Volunteer, contributed dependable hands on support during community service activities.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST