Robert T. Davidson

(703) 868-2950

Taylordavidson87@gmail.com

SUMMARY

Looking to transition existing skills from servicing private corporate aircraft into an environment that provides opportunity for further professional development and growth.

AVIATION TRAINING

While pursuing an Occupational Associates Degree in Aviation Maintenance Technology, the following tasks were performed:

Powerplant

- Complete disassembly, inspection, and reassembly of Lycoming GSO-480 (reciprocating) & Allison 250 (turbine) engines.
- Performed inspection and maintenance procedures on LearJet 24 and CJ-610 engines.
- Performed dynamic engine test and diagnosis on engines installed in aircraft and in test cells.
- Performed troubleshooting, removal, repair, installation, and ground operation of the following:
  - CJ-610, Lycoming T-53 Turbo Shaft & Lycoming O-235-L2C
  - Powerplant induction and exhaust systems (reciprocating & turbine)
  - Ice and rain systems
  - Super and turbo charging systems
  - Fuel systems and Fuel metering systems
  - Ignition systems (magneto and capacitive discharge)
  - Electrical systems (including starters, generators, alternators, wiring controls, switches, indicators, and protective devices)
  - Instruments (including electrical and mechanical, engine temperature, pressure, and RPM indicating systems
  - GPU Air search Model GTGE 70-9-2

Airframe:

- Removed, inspected and reinstalled components in the following aircraft systems per manufactures overhaul/repair manuals, blueprints, schematic diagrams, FARs and other sources of FAA approved information:
  - Hydraulics, Pneumatics, System Instrumentation, Fire Protection, Flight Controls, Landing Gear/Wheels and Tires, Aircraft Interiors
- Performed altimeter/airspeed static leach test utilizing static system tester.
- Performed aircraft weight and balance utilizing aircraft scales.
- Rigged flight controls, engine and retractable gear systems.
- Serviced aircraft hydraulic, water, and oxygen systems.

Sheet Metal:

- Fabricated wing sections, spar caps, stringers, spar webs, ribs and skins utilizing blueprint drawings.
- Repaired damage on wing sections.
- Repaired aircraft damage on transport category airframes.
- Utilized the following technical data accomplishing sheet metal tasks:
  - Structural Repair Manuals (SRMs)
  - Federal Aviation Regulations (FARs)
  - FAA approved publications
  - Blueprint diagrams
- Utilized the following tools while accomplishing above tasks:
  - Drills, Clecos, Rivet Sets, Rivet Guns, Bucking Bars, Hole Duplicators, Rivet Cutters, Countersink Stops, Micro Shavers Chip Chasers, Nibblers, Shears, Form Blocks, Brakes

Composites:

- Fabricated composite wing section, repaired damaged windows, doors and interior furnishings.
- Worked with extruded polystyrene, epoxy resin, bi-directional fiberglass, micro-balloons, unidirectional spar tape, plastic, polyurethane and resins.
- Painted aircraft airfoils.
- Utilized composite fasteners and vacuum bagging processes IAW Glencoe Aircraft, Maintenance Manual, AC43-13-1BI2A and Federal Aviation Regulations.

Aircraft Utilized During Training:

- LearJet 24
- Piper PA28-140 Cherokee
- Beechcraft C23 Sundowner
- Aero Commander 520
- Cessna 310H

EMPLOYMENT HISTORY:

Rapid AOG	Aircraft worked on:
A&P Mechanic	HAWKER 800XP
12/23-current	PILATUS PC24
	CITATION 560XL
Airborne	Aircraft worked on:
A&P Mechanic	A320 A320-neo
2/22-9/23	
Avmax	Aircraft worked on:
A&P Mechanic	CRJ 700/900
5/21-12/21	ERJ 145
Expressjet	Aircraft worked on:
A&P Mechanic	ERJ 145-145XR
10/15-11/16	CRJ 700
Kalitta Air	Aircraft worked on:
06/14-09/15	MD-11
A&P Mechanic	B747

EDUCATION:

National Aviation Academy – Clearwater, FL
Occupational Associates Degree Aviation Maintenance
Sept 2013 – May 2014
3.85 GPA Magna Cum Laude

COMPUTER SKILLS:

Microsoft Office: Word, Excel, PowerPoint

CERTIFICATIONS & AWARDS:

FAA Airframe & Powerplant Certificate#3778684
NAA Directors Award
Team Lead – NAA