

# Jim McCandless

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## Experience

2005-Present Alternative Fuel Technology, LLC

[www.altfueltechnology.com](http://www.altfueltechnology.com)

**President, & CEO AFTC, Inc & AFT, LLC**

- Formed independent company to further develop DME fuel system technology for passenger car, medium and heavy-duty trucks & buses.
- Produced 6 DME fuel systems for Volvo Truck. Truck (Euro V) has been demonstrated all over Europe.
- Designed “production intent” common rail fuel injection system. New system has 30% fewer parts & develops higher pressures. This new system does not utilize patents obtained at AVL Powertrain Technologies.
- Developed compact DME feed pump to transfer fuel from tank to injection system
- Built & tooled CNC & precision grind shop. We produce 80% of prototypes in-house
- Successfully completed “initial public offering” to generate capital. AFT is now a public company...Alternative Fuel Technologies, Inc  
**AFTC**

1993–2005 AVL Powertrain Technologies, Inc. Ann Arbor, MI

President, CEO & Principal (Joint Venture w/AVL List GmbH)

- Started AVL’s first engineering organization in the USA.
- Invented and developed advanced fuel injection system for DME.
- Promoted DME around the World...7 Countries, 50 presentations
- Demonstrated ultra-low emissions and noise on both passenger car and heavy-duty truck diesel engines burning DME

1986–1993

Navistar Engine & Foundry Div Melrose Park, IL.

Vice President-Engineering

- Total Responsibility for Engine Engineering-Partial Responsibility for Manufacturing Engineering
- Managed 400 Engineers-\$50 million Budget
- Developed the “Ford Powerstroke Diesel & “CAT” HEUI Injector.

1982–1986

Kohler Co.-Engine Div

Kohler, WI.

Director-Engineering

- Brought Technology to Kohler
- Built competent engine engineering organization.
- Developed new series of overhead valve utility engines

1969-1982            International Harvester Co.            Melrose Park, IL

**Division Chief Engineer**

- Progressed from test engineer to Division Chief Engineer
- Managed 150 engineers & budget of \$10 million
- Designed the 6.9L engine for Ford-2 million engines produced

1968-1969 Teledyne Continental Motors (Military Diesel Engines)

**Test Engineer**

- Worked on variable compression ratio, high output turbocharged diesel for main battle tank.

**Military Service**

1966-1967    US Navy Reserve-Swift Boat Combat Service, Vietnam

- Honorable Discharge
- Various Combat Ribbons

**Awards**

**Patents:**

- Over 12 US Patents Awarded (numbers available on request)
- Lloyd L. Winthrow (SAE) award for excellence in oral presentations.
- Published numerous SAE papers and made hundreds of technical oral presentations