

Andrew "Andy" Copeland  
Chief Design Engineer  
JSF F-35B LiftSystem  
Rolls-Royce North America  
Indianapolis, Indiana



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I reside in Greenwood, IN with my wife and 2 of our 4 kids, ages 24, 22, 16 and 14. I grew up on a farm and spent a considerable amount of time around a wide variety of machinery. I've always been fascinated with how things work and I ended up learning a lot of basic mechanical skills at an early age. I spent roughly 5 years working in the Fire Equipment industry along with a brief stint as a plumbers apprentice before deciding to pursue a degree in Mechanical Engineering. I earned my BSME from Purdue University, Indianapolis in 5 years while also completing 6 Co-Op sessions with Inland Container and Allison Engine Company (Rolls-Royce). I am currently the Chief Design Engineer for the JSF LiftSystem Program: 2015 - Present

I have held a variety of other technical roles in my 21 years at Rolls-Royce Corporation including: Chief Project Engineer for LibertyWorks STELR program (USAF AFRL): 2012-2015, Chief Design Engineer for the Transmissions, Structures & Drives component engineering group: 2008-2012, Design Technical Lead for the ADVENT program (USAF AFRL): 2007-2008, Design Technical Lead for JSF LiftFan Gear Box design 2007, Rolls-Royce Six Sigma Black Belt training program: 2006, Design Technical Lead for a Cone Clutch design used on the initial Trent 1000 engines: 2005, Design Engineer on the sizing and material selection of the composite friction clutch discs, JSF LiftFan Clutch: 2001-2005, Design Engineer supporting assembly/testing/design mods for JSF LiftFan Clutch/Driveshaft/Vanebox: 2000-2001 including onsite support for the LiftFan during flight testing of the X-35B at Skunkworks (Palmdale, CA) and Edwards Air Force Base – 2001, Design Engineer on T-56 Turboprop gear box components for the C-130 aircraft: 1999 and Design Engineer CO-OP Student in the Combustion Dept: 1997-1998.

Prior to earning my BSME I primarily worked in the hand portable fire equipment industry as an Fire Extinguisher Service Tech, SCBA Repair Tech and Fire Extinguisher Instructor (Certification from Ansul Fire School 1992): 1989-1995.

I hold 11 US Patents with 5 pending approval (all with Rolls-Royce). I am also a GRT.