

Curriculum vitae Manuel Frey

COMPANY: ArianeGroup

NAME: Dr. Manuel Frey

BORN: August 27th 1969 at Überlingen am Bodensee, Germany

ASSIGNMENT: Senior expert for liquid propulsion

EDUCATION: Diploma (Dipl.-Ing.) in Aerospace Engineering, University of Stuttgart, 1996
Doctorate (Dr.-Ing) in Aerospace Engineering, University of Stuttgart, 2001

WITH COMPANY: since September 2003

CURRENT POSITION: expert since 2005, senior expert since 2013

EXPERIENCE:	1996-2001	DLR Lampoldshausen, Germany, Main Division Space Propulsion: Research scientist, topic nozzle flows
	2001-2003	Volvo Aero Corporation, Trollhättan, Sweden, Space Propulsion Division: Development engineer; topic nozzle engineering
	since 2003	EADS Astrium ST Ottobrunn, Germany, Development Launcher Propulsion: Development engineer; topic thrust chamber engineering.
	since 2005	Expert in the field of "Fluid mechanics"
	2008-2009	Team leader "Simulation of thrust chamber components"
	2009-2013	Team leader "Advanced tools"
	2013-2015	Team leader "Components engineering and system analysis"
	since 2013	Senior Expert in the field of "Liquid Propulsion"