## **CURRICULUM VITAE**

## PERSONAL DATA

Name and surname:	Davor Mance
Day and place of birth:	November 28 <sup>th</sup> , 1954, Fužine, Croatia
Address:	ETH Zürich, Institute of Geophysics, NOF19, Sonneggstr. 5, CH-8092 Zürich, Switzerland
Telephone:	+41 44 633 2633, +41 79 367 0833
E-mail:	davor.mance@sed.ethz.ch

## **EDUCATION AND DEGREES**

2010 - 2012	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture (FESB), University of Split, Croatia, Ph.D in technical sciences, in the field of electrical engineering – electronics
1981 – 1986	Faculty of Electrical Engineeringand Computing (FER), University of Zagreb, Croatia, M.Sc in technical sciences, in the field of electrical engineering – electronics
1973 – 1978	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture (FESB), University of Split, Croatia, Bachelor of Science – Diploma Engineer of electrical engineering - electronics
LICENCES	
1999 –	P.Eng, Professional Engineers, Ontario, Canada
EXPERIENCE	
2000 -	ETH Zürich, Swiss Federal Institute of Technology, Institute of Geophysics, Zürich, Switzerland
	System Engineer
	• Development of inertial system front-end electronics for the detection of gravitational waves in the context of fundamental physics research (ESA / NASA missions: LISA Pathfinder, LISA GRS)
	• Development of electronics for the control, acquisition and signal processing of various seismic sensors for geophysical exploration on Mars and the Moon (CNES / ESA / JAXA / NASA missions: Mars Netlander, ExoMars, Selene-2, InSight-proposal)

	• Development of detector and amplifier electronics of the laser return pulse for the digital mapping of planet Mercury (ESA mission: Altimeter on Bepi Colombo)
1998 – 2000	Optech Inc., Toronto, Ontario, Canada
	ALTM System Engineer
	• System engineering of the Airborne Laser Terrestrial Mapper (ALTM)
	• Design of a detector and a laser pulse discriminator and time interval-meter electronics with picosecond resolution
	• Mirror servo electronics design of a 3D laser scanner
1994 – 1998	TSI Techno Scientific Inc., Toronto, Ontario, Canada
	Electronics Group Leader
	• Development of an ultrasonic system for medical examination and early detection of nitrogen bubbles in the blood of divers and astronauts after quick de-pressurization (used on Space Shuttle missions)
	• Development of electronics of ultrasonic systems and instruments for industrial applications (measurements of position, thickness, porosity of materials, controlled spraying of chemicals in agriculture, cleaning of sporting equipment)
	• Design of ultrasonic equipment to help blind people (stereoscopic detector of obstacles – Sonic Cane)
1992 – 1994	Faculty of Engineering, University of Rijeka, Croatia
	Assistant for:
	Basics of Control Engineering (Electrical Engineering)
	• Automation and Control (Mechanical Engineering)
1979 – 1994	FOTONA D.D. – Electro-optics, Ljubljana, Slovenia and SOUR Rudi Čajavec – RO Professional Electronics, Banja Luka, Bosnia and Herzegovina
	Chief Engineer for Systems
	• Optimal controller design for the stabilization of mirrors in optical equipment and design of sensors in various control systems
	• Software development for control and guidance
	• Development and retrofit of control systems in special vehicles (electro-hydraulic actuators, laser rangefinders, inertial sensors for moving stabilization systems)