CURRICULUM VITAE

1) Personal Details

Date of Birth:	October, 1964
Citizen of:	Israel
Marital Status:	Married, two children
Permanent Home Address:	Moshav Sde Itzhak, Israel
Home Telephone Number:	(077) 883 1585
Cellular Phone:	(054) 929 0009
Electronic Address:	mgroper@univ.haifa.ac.il

2) <u>Higher Education</u>

a) Undergraduate and Graduate Studies

1987: B.Sc., Mech. Engineering, Technion, Israel Institute of Technology 1995: M.Sc., Mech. Engineering, Technion, Israel Institute of Technology 1999: Ph.D., Mech. Engineering, Technion, Israel Institute of Technology

b) Post-Doctoral Studies

None

3) Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
2005 – Present	Technion, Israel Institute of Technology, Faculty of	Adjunct Senior Lecturer *
	Mechanical Engineering	
2014 – Present	University of Haifa, The Department of Marine Technologies	Adjunct Associate Professor (Specialist)

(*) Teaching the courses in Mechanical Engineering Design and Hydrodynamic Lubrication, one/two courses per semester

4) Offices in Academic Administration

Dates	Name of Institution and Department	Rank/Position
2014 – Present	University of Haifa, The Hatter Department of Marine Technologies	Head of Department

5) <u>Scholarly Positions and Activities Outside the University</u>

a) Professional Experience

Dates	Activity
1987 - 1991	Design engineer (Lieutenant Navy – "Seren"), Marine Engineering Branch, Israeli Navy Headquarters, Israeli Navy. Design of mechanical elements and power systems for new and existing Navy vessels.
1991 - 1995	Chief marine engineer (Lieutenant Commander Navy – "Rav-Seren") for the SA'AR5 corvette technical team at Ingalls Shipbuilding Inc., MS, U.S.A. Development of propulsion elements and control algorithms for the corvette's propulsion system, part of the team for the design of the propulsion, auxiliary and damage control systems, responsible for the analysis of sea trials experiments and ship performance tests.
1995 - 1997	Head of the mechanical systems department (Lieutenant Commander Navy – "Rav- Seren"), Marine Engineering Branch, Israeli Navy Headquarters, Israeli Navy. Group leader responsible for the design of mechanical components and retrofits for propulsion and auxiliary systems installed onboard the Israeli Navy surface vessels.
1999 - 2000	Head of the mechanical workshop (Lieutenant Commander Navy – "Rav-Seren"), Israeli Navy Shipyard, Israeli Navy. Development of maintenance procedures and troubleshooting of complicated failures in Navy's vessels mechanical systems. In charge of 100 employees, technicians and engineers.
2000 - 2002	Head of the Engineering Squadron (Commander Navy – "Sgan-Aluf"), Israeli Navy Shipyard, Israeli Navy. Development of maintenance concepts and design of retrofits for mechanical and hydraulic systems. Analysis of failures in diesel engines and other mechanical equipment. Responsible of the shipyard's technical design office, metallurgical laboratory and workshops.
2002 - 2005	Head of the Marine Engineering Branch (Commander Navy – "Sgan-Aluf"), Israeli Navy Headquarters, Israeli Navy. Lead the design and development of propulsion and other mechanical systems for new and existing Navy surface vessels and submarines. Conduct and instruct a team of 20 mechanical engineers.
2005 – 2007	Head of the Naval Architecture Branch (Commander Navy – "Sgan-Aluf"), Israeli Navy Headquarters, Israeli Navy. Lead the design, development and analysis of the Naval Architecture aspects for the new and existing Navy's marine platforms. Conduct and instruct a team of 30 mechanical engineers and naval architects.

2007 - 2010	Head of Naval Architecture and Marine Engineering (NA&ME) Department (Captain Navy – "Aluf-Mishne"), Israeli Navy Headquarters, Israeli Navy. Responsible for the design, development and retrofit in the Naval Architecture and Marine Engineering aspects for the new and existing Navy's marine platforms. Conduct and instruct a team of 70 Mechanical Engineers and Naval Architects.
2010 - 2012	Owner of M.G. Mechanical and Marine Engineering Design Bureau. Design and Consulting on Mechanical and Marine Engineering Projects.
2012 – 2014	Owner and CEO of GALIM, Marine Engineering, Design & Consultancy Ltd (<u>www.galim-engineering.co.il</u>). GALIM provides comprehensive mechanical engineering and project management services to the Naval, Marine, Offshore and Industrial sectors. GALIM services focus on Naval Architecture & Marine Engineering, Concept Design & Technical Solutions, Mechanical Engineering and Consultancy Services.
2014 – Present	 Adjunct Associate Professor (Specialist), Head of the Hatter Department of Marine Technologies, Charney School of Marine Sciences, University of Haifa. Adjunct Senior Lecturer (part-time), Machine Design, Hydrodynamic Lubrications, Faculty of Mechanical Engineering, Technion, Israel Institute of Technology.

6) <u>Research Grants</u>

a) Grants Awarded

Role in Research	Other Researchers (Name & Role)	Title	Funded by (C= Competitive Fund)	Amount	Years
co-PI	Roee Diamant, Aya Lazar	IW hunter: Smart drifter to record spatial evidence of internal waves	Ministry of Science, Technology and Space (C)	849,570 NIS	2020 - 2023
co-PI	Tali Treibitz, lead-PI Guy Gilboa, co-PI	3D Optical Obstacle Avoidance for Autonomous Underwater Vehicles in Complex Environments	Ministry of Science, Technology and Space (C)	700,000/2,100,000 NIS	2019- 2021
lead-PI	Tali Treibitz, co-PI	Docking and LARS operation for small AUVs in high seaway	IMOD	300,000 NIS	2017- 2019

PI		Health monitoring of a water lubricated hydrodynamic bearing	IMOD	110,000 NIS	2018- 2019
lead-PI	Tali Treibitz, co-PI	Autonomy of planing crafts in seaway	IMOD	300,000 NIS	2016- 2018
co-PI	Tali Treibitz, lead-PI Sagi Filin, co-PI	Our Eyes Beneath The Sea – a Holistic AUV Based Framework for Visual Seafloor Surveys	Ministry of Science, Technology and Space (C)	1,000,000/2,400,000 NIS	2016- 2018

7) <u>Teaching</u>

a) Courses Taught in Recent Years

Year	Name of Course	Type of Course	Institution	Number of Students
2003 - 2010	Marine Engineering	Lecture	Naval Academy, Haifa	15 (approximately)
2005 – Present	Mechanical Engineering Design 1 (034015)	Undergraduate course	Faculty of Mechanical Engineering, Technion	150 (approximately)
2005 – Present	Mechanical Engineering Design 2 (034016)	Undergraduate course	Faculty of Mechanical Engineering, Technion	70 (approximately)
2010 – Present	Hydrodynamic Lubrication (03610)	Postgraduate course	Faculty of Mechanical Engineering, Technion	14 (approximately)
2018 -	Fundamentals in Underwater Engineering (400419)	Postgraduate course	School of Marine Sciences, University of Haifa	10 (approximately)
2019 -	Underwater Marine Vehicles (400420)	Postgraduate course	School of Marine Sciences, University of Haifa	4 (approximately

b) Supervision of Graduate Students

Name of	Title of Thesis	Degree	Date of
Student			Completion

Avishai Dov	On the influence of operational	M.Sc. (Technion)	2017
	parameters on the performance of a		
	water lubricated journal bearing		
Allaka	Motion Assessment of a Planing	M.Sc. (summa cum	2017
Himabindu	Craft in Seaway	laude)	
Ivgeni Gutnik	On the modification of the SPARUS	M.Sc.	2018
	II AUV for close range imaging		
	survey platform		
Gil Maor	Development of a vectored thruster	M.Sc.	Pending
	for AUV applications		
Allaka	Autonomous Operation of a Planing	Ph.D.	2022 (estimated)
Himabindu	Craft in Seaway (temporary)		
Ivgeni Gutnik	Robust launch and recovery	Ph.D.	2023 (estimated)
	operation of a small size AUV in sea		
	way applying a deployable docking		
	station concept (temporary)		
Sharon Parver	Improving LARS operation for small	M.Sc.	2020 (estimated)
	AUVs in high seaway (temporary)		
Yuri Katz	On the development of a small-size	M.Sc.	2020 (estimated)
	autonomous Lagrangian float to		
	identify, follow and ultimately study		
	Internal Waves		
Eli Shafer	Path planning toward a docking	M.Sc.	2021 (estimated)
	station using FLS (temporary)		
Tamar Yahav	Oceanic camera array	M.Sc.	2022(estimated)

8) <u>Public Professional Activities</u>

1) Head of the Naval Architecture & Marine Engineering cell, The Association of Engineers and Architects in Israel.

9) Membership in Professional Societies:

- 1) Member, Israel Society for Tribology.
- 2) Member, the Association of Engineers and Architects in Israel.

10) <u>Awards</u>

1) Flores, P. Reviewer acknowledgments and awards: Recognition awards for distinction of reviewing in 2019. Mechanism and Machine Theory, Vol. 152, 103904 (2020).