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### 1) Educations

University	Degree	Academic Major	Year
King Mongkut University of Technology Thonburi	D.Eng.	Mechanical Engineering	2006
University of California at Berkeley	M.S.	Mechanical Engineering	1997
Carnegie Mellon University	B.S.	Mechanical Engineering	1995

### 2) Expertise

Unmanned and autonomous system, Field Mobile robotics, Marine Robotics, Bathymetric survey, Dynamically stable walking humanoid, Mechatronics system design, Sensor systems, Genetic Algorithm

### 3) Projects

Position/responsibility	Projects	Year	Project status
Project leader	Connected and Autonomous Vehicle (CAV) proving ground at EECi Funding: EEC Office	2022-2025	25%
Research Staff	Autonomous Feeder system. Funding: PMUC, Ministry of Higher Education, Science, Research and Innovation.	2021-2023	60%
Project leader	Autonomous shuttle system for use in fix route and close space Funding: Sansiri PLC., National	2019	100%

	Science and Technology Development Agency (NSTDA)		
Project leader	Outboard motor type, Unmanned surface vehicle (USV) Funding: Hydro Informatic Institute and Digital economy promotion agency (DEPA)	2018-2019	100%
Project leader	Autonomous All Terrain Vehicle (ATV) Funding: Thai Army and National Science and Technology Development Agency (NSTDA)	2018-2019	100%
Project leader	Autonomous forklift Funding: Thailand Research Fund	2017-2018	100%
Project leader	Compact electric and autonomous kayak for bathymetric survey Funding: Hydro Informatic Institute, Burapa University	2016-2019	100%
Project leader	Design and construction of hybrid remotely operated underwater vehicle (ROV) for structural inspection tasks, phase 2 Funding: PTT	2015-2017	100%
Project leader	Very Shallow water Scouring Service at ZAWTIKA Funding: PTTEP	2014	100%
Project leader	Design and construction of hybrid remotely operated underwater vehicle for structural inspection tasks, phase 1 Funding: PTT	2014-2015	100%
Project leader	Canals and rivers in Bangkok and vicinity survey project Funding: Hydro and agro informatics institute (HAI)	2012-2014	100%
Research staff	Design and construction of Catamaran robot for long term	2014-2016	100%

	hydrographic data collection Funding: National Research Council Thailand (NRCT)		
Research staff	Development of river bank measurement system from unmanned boat Funding: Hydro and agro informatics institute (HAI), Marine department	2013-2014	100%
Research staff	Robot boat for water sampling development project Funding: National Research Council Thailand (NRCT)	2011-2012	100%
Project Leader	Design and construction of robotics system for environmental data collection Funding: Ministry of Science and Technology (MOST)	2010-2012	100%

#### Research works published

Literature	Journal or conference	Fiscal year
Autonomous Way-Point Tracking Navigation of Surveying Surface Vessel with Real-Time Positioning System	The 19 <sup>th</sup> INTERNATIONAL COMPUTER SCIENCE AND ENGINEERING CONFERENCE (ICSEC 2015)	2016
Autonomous Surface Vehicle for Bathymetric and Environmental Survey: Implementation and Results	THA 2015 International Conference on "Climate Change and Water & Environmental Management in Monsoon Asia"	2015
Robot boat for environmental data collection (In Thai)	Bulletin of Applies Sciences Department of Science Service	2012
Autonomous Waypoint Tracking of Kayak Boat using State-Variable Feedback Control	MTS/IEEE OCEANS	2012

