Yaolin Ge

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PERSONAL INFORMATION

Date of Birth: October 20, 1996
Place of Birth: Shaanxi, China
Citizenship: Chinese
Gender: Male

EDUCATION

Aug. 2019 – Present	**KTH Royal Institute of Technology, Stockholm, Sweden** **M.S. Maritime Engineering (Adviser Prof. Kuttenkeuler)** **Thesis: Signal Processing of Underwater Beacons for AUVs**
Aug. 2018 – Jun. 2019	**Norwegian University of Science and Technology, Trondheim, Norway** **G.P.A. 3.93/4.00** **M.S. Marine Technology (Co-adviser Prof. Ludvigsen)**
Sept. 2017 – Jan. 2018	**University of Strathclyde, Glasgow, United Kingdom** **G.P.A. 3.32/4.00** **B.S. Naval Architecture & Marine, Ocean Engineering**
Sept. 2014 – Jun. 2018	**Jiangsu University of Science and Technology, Zhenjiang, China** **G.P.A. 3.81/4.00** **B.S. Naval Architecture & Ocean Engineering**

RESEARCH EXPERIENCE

Aug. 2019 – present	**Research on the Signal Processing System for Underwater Beacons** KTH & Swedish Maritime Robotics Centre (SMaRC), Stockholm, Sweden • Participated regular meetings with researchers who work on the next generation AUV – LoLo • Set up hardware simulation testing environment (i.e. sonar equipment & other electronics) and conducted literature review on signal processing • Learning to formulate upgraded models Supervisors: Jakob Kuttenkeuler, Professor; Martin Ludvigsen, Professor
Dec. 2017 – Jun. 2018	**Research on VIV Analysis of Added Mass Effect on Slender Riser based on Smei-empirical Model** Naval Architecture & Ocean Engineering Laboratory, JUST, Zhenjiang, China • Investigated the dynamic response due to VIV on slender risers • Formulated a model with considering added mass effect based on the prevailing semi-empirical model • Studied the simulated response for different cases using Abaqus • Assessed data using Origin & Excel Supervisor: Wang Kunpeng, Associate Professor
Apr. 2017 – Feb. 2018	**Research on the Shipyard Material Management System based on the IoT** Naval Architecture & Ocean Engineering Laboratory, JUST, Zhenjiang, China • Participated in literature review and field survey in local shipyards • Took main responsibility in preliminary and following tests on PDA, client program and network environment • Undergraduate Student Innovation Training Project Supervisor: Zhu Anqing, Senior Engineer

PROFESSIONAL QUALIFICATIONS

Personal Skills:

FEM analysis by ANSYS APDL, ANSYS Workbench, Abaqus; Programming language with C, C++, Python & MATLAB; CAD Modelling by AutoCAD, Solidworks; Microsoft Office; Latex; Adobe Photoshop & Illustrator; 3D FDM printing; XFoil; Origin; OpenCV; ROS

Languages:

English (fluent)
Chinese (native)
Norwegian (beginner)

AWARDS

2019	Best Popular Prize, AI + Art in Robot Dancing Competition, PKU
2017	Merit Student, MOE
2017	First Prize, Academic Competition in Mechanics Knowledge, JUST
2016 – 2017	National Scholarship, MOE
2016	Second Prize Scholarship, CSSC Huangpu Wenchong
2015 - 2016	First Prize, Renmin Scholarship, MOE
2015	Honourable Mention, Xuediao Innovative Design Contest, JUST
2015	National Encouragement Scholarship, MOE
2015	Second Prize, Decelerator Assembly & Disassembly Contest, JUST
2014	Honourable Mention, CMIH Simulation Model Design Contest, JUST
2014	First Prize, Diesel Engine Assembly & Disassembly Contest, SIYANG

PROFESSINOAL MEMBERSHIPS

The Royal Institute of Naval Architects
Kongl. Skeppssällskapet

EXTRA-CURRICULAR

Jul. 2019 – Aug. 2019	**Summer campus student**
	Peking University, Beijing, China
	• Applied OpenPose algorithm to achieve the motion capture activities
	• Programmed Yanshee Robot to dance following human motions
	• Developed the motion mapping tool to convert 2D motions to 3D ones
Mar. 2017 – Apr. 2017	**Interpreter Intern**
	IDP Education Ltd., Nanjing, China
	• Organised the introduction events for university's admission committee and expected applicants
	• Acted as an interpreter among applicants and admission committees
	• Prepared and presented useful information for applicants
Oct. 2014 – Jun. 2018	**Team Member**
	Student Volunteer Association, Zhenjiang, China
	• Participated in local and on-campus volunteering activities regularly

REFEREES:

Martin Ludvigsen (Ph.D.)	Norwegian University of Science and Technology
Professor	martin.ludvigsen@ntnu.no
Kunpeng Wang	Jiangsu University of Science and Technology
Associated Professor	wangkunpeng@just.edu.cn

INTERESTS

Running, bicycling, swimming, fitness training, cross-country skiing