

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 (Small Craft Design)
Aug. 2018 – Jun. 2019	Norwegian University of Science and Technology, Trondheim, Norway G.P.A. 3.93/4.00 M.S. Marine Technology (Ocean Structure)
Sept. 2017 – Jan. 2018	University of Strathclyde, Glasgow, United Kingdom G.P.A. 3.85/4.00 B.S. Naval Architecture & Ocean and Marine Engineering
Sept. 2014 – Jun. 2018	Jiangsu University of Science and Technology, Zhenjiang, China G.P.A. 3.89/4.00 B.S. Naval Architecture & Ocean Engineering

PROJECT EXPERIENCE

Aug. 2019 – Present	Maribot Vane 2.0 Design Project KTH & SMaRC (Swedish Maritime and Robotic Center), Stockholm, Sweden <ul style="list-style-type: none">Designed and built the Maribot Vane 2.0, an autonomous sailing vesselEngineered and manufactured the glass fibre-made rudderEvaluated the mechanical behaviour under certain load conditions for most of 3D printed parts as well as parts made from composite materialsStudied and assessed the performance of the components made from composite materials in terms of weight and strength
Sept. 2018 – Dec. 2018	Project on simulation-based design of the cruise ship balcony TMR4320 Simulation-Based Design, NTNU, Trondheim <ul style="list-style-type: none">Developed an initial design concept and assessed the principle dimensions, stress distribution & deflectionConducted the FEA analysis under multiple loading conditions and simulated theEstablished a parametric model and optimised the model using PSO codes out of minimum weight Supervisor: Ekaterina Kim, Associate Professor
Aug. 2017 – Jan. 2018	Project on the investigation of flow pattern on a circular cylinder NM402 Theory and Practice of Marine CFD, Univ. of Strathclyde, Glasgow <ul style="list-style-type: none">Studied the vortex shedding phenomenon and physics behind VIV and applied the time-domain VIV model for low mass ratio systemReviewed analysis methods such as finite volume method and finite difference method for necessary analysis of computational fluid dynamicsSimulated the behaviour of the flow pattern for a rigid body circular cylinder under steady flow condition using Star-CCM+ Supervisor: Qing Xiao, Reader; Wendi Liu, Research Associate

PROFESSIONAL QUALIFICATIONS

Personal Skills:

Programming language with C/C++, Python & MATLAB; FEA analysis using Abaqus & ANSYS APDL; Foil analysis using Xfoil; CFD analysis using Star-CCM+; CAD modelling with Solidworks/AutoCAD; Simulation with Simlink (Simevents); 3D FDM printing; Microsoft Office; Latex

Languages:

English (fluent)

Chinese (native)

Swedish (conversational)

AWARDS

2019	Intel® Edge AI Scholarship, Intel
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	National Encouragement Scholarship, MOE
2015	Honourable Mention, Xuediao Structural Innovative Design Contest, JUST
2014	Honourable Mention, CMIH Simulation Model Design Contest, JUST
2014	First Prize, Diesel Engine Assembly & Disassembly Contest, SIYANG

PROFESSIONAL MEMBERSHIPS

The Royal Institute of Naval Architects (RINA)

Kongl. Skeppssällskapet

EXTRA-CURRICULAR

Jul. 2019 – Aug. 2019

Project on computer vision for robotic perception

Peking University, Beijing, China

- Applied OpenPose algorithm to achieve the motion capture activities
- Employed the motion mapping tool to convert 2D motions to 3D skeleton ones
- Programmed Yanshee Robot to dance following human motions

Oct. 2014 – Jun. 2018

Team Leader

Student Volunteer Association, Zhenjiang, China

- Organised local and on-campus volunteering activities regularly

Mar. 2017 – Apr. 2017

Interpreter Intern

IDP Education Ltd., Nanjing, China

- Organised the introduction events for university's admission committee and expected applicants
- Interpreted and assisted applicants with communications with admission committees' representatives

REFEREES:

Kourosh Koushan
Professor

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Professor

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INTERESTS

Running, bicycling, swimming, Taekwondo, cross-country skiing