**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

* Designed and built the Maribot Vane 2.0, an autonomous sailing vessel
* Engineered and manufactured the glass fibre-made rudder
* Evaluated the mechanical behaviour under certain load contions for most of 3D printed parts as well as parts made from composite materials
* Studied 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

* Developed an initial design concept and assessed the principle dimensions, stress distribution & deflection
* Conducted the FEA analysis under multiple loading conditions and simulated the
* Established 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

* Studied the vortex shedding phenomenon and physics behind VIV and applied the time-domain VIV model for low mass ratio system
* Reviewed analysis methods such as finite volume method and finite difference method for necessary analysis of computational fluid dynamics
* Simulated 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)

**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

**PROFESSINOAL 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 Member**

Student Volunteer Association, Zhenjiang, China

* Participated in 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:**

Tahsin Tezdogan Department of NAOME, University of Strathclyde

Senior Lecturer [tahsin.tezdogan@strath.ac.uk](mailto:tahsin.tezdogan@strath.ac.uk) +44 (0)141 548 4532

ZHOU Hong Department of Naval Architecture and Ocean Engineering, JUST

Professor [zjcyzh@163.com](mailto:zjcyzh@163.com) +86 1365 6136 398

**INTERESTS**

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