Self intro

Yaolin, 23, 6yrs in marine field, 2.5 yr abroad

Bachelor, comprehensive overview of ship, hydrodynamics (CFD), structural (FEM), manoeuvring, seakeeping etc.

* Never stop, x-cur activities,
* Involve in lab work, latest techs
* Fruitful and rewarding

Dedication🡪 UK, eye-opening, biggest scottish hydrodynamic lab, manoeuvring test

Advanced level:

NTNU,

* Sharpen my understanding
* Brush up my skills
* Interact with professors in top field
* Gain insights into latest technologies

KTH,

* Different traditions, and different systems
* Part of an exciting group which did excelled the objective of making a 2nd generation marinbot Vane developed here at KTH.
* sailing boat, control, collision avoidance, certain manoeuvre.
* MSc. UW situation awareness, CMF,QMF

Extra: sensor fusion, ai

Interest:

Currently, final year of Nordic master student, specialize in small craft, particularly in underwater robotics, (ROV, AUV, etc.). This specialization enables me to be exposed to a world of underwater sensing technologies as well as manoeuvrability of underwater robotics.

At present, I am taking my MSc thesis here at KTH which is mainly about underwater navigation system in acoustic way, I believe that they will definitely pave the way for this internship , and possibly also beneficial to prospective Ph.D. program as well that I am preparing to apply.

My master’s thesis topic is signal processing of underwater beacons, key component for LBL (long baseline) underwater navigation and positioning system, a more accurate way than dead reckoning. It engages me to obtain some hands-on experience in hardwares as well as signal processing techniques. Hopefully, I will accomplish this project by next May.

Before I came here, I was studying at NTNU, Trondheim. That experience really solidifies my aspiration of doing a Ph.D. after my master study. I was also taking several professional courses, such as marine electrical systems and underwater technologies. They both inspired me a lot.

In the future, I am also doing a project on Lidar detection and signal processing, PCL, point clouds, ray. In next 2 months, radar and stereo camera projects will come out.

* + - Right before that, I went to University of Strathclyde, that is place which expanded my horizon a lot, although the duration was only six months, I benefited from both academically and personally, I experienced Scotland culture, food and accent as well.
    - • Prior to that, the bachelor’s experience in China gave me a strong foundation and general background knowledge in marine field.

High-tech guy, always love latest gadgets, play around and fix problems. Enthusiastic attitude towards AI, that is the reason why I did take the summer campus training programme at PKU.

Sporty guy pingpong, taekwondo, skiing, hiking,

Passionate boy never say give up, I will manage to achieve something I think I should achieve.

Detection is the most fundamental one of the inferential objectives in remote sensing (situation awareness). No other objectives can be accomplished w/o first performing detection.

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