Self intro

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

Bachelor, comprehensive overview of ship, grades are great, competition awards, extensive lab work, research initiative, design propeller numerical analysis.

UK, eye-opening, hydrodynamic lab, manoeuvring test

NTNU, underwater nav & pos, transferrable skills. Ship operation, kinematic dynamics, control theory,…project in skogen, practical skills. Risk management methods.

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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