

# ANDREAS SITORUS

## Master Student | Marine and Maritime Intelligent Robotics

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i Date of birth : 25/09/2000 Nationality : Indonesian - with valid European work permit

### EDUCATION

- |                                  |   |
|----------------------------------|---|
| <b>Current</b><br>September 2022 | <ul style="list-style-type: none"><li>● <b>Master's Degree , NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET &amp; UNIVERSITÉ DE TOULON,</b><ul style="list-style-type: none"><li>➢ Marine and Maritime Intelligent Robotics - Erasmus Mundus Joint Master's Degree Scholarship</li><li>➢ Master's Degree in Marine Robotics (MSc) at NTNU-Trondheim</li><li>➢ Master's Degree in Engineering of Complex Systems (MSc) at Université de Toulon</li></ul></li></ul> <div>Robotic Maritime Science Artificial Intelligence</div> |
| July 2022<br>August 2018         | <ul style="list-style-type: none"><li>● <b>Bachelor's Degree , INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS),</b><ul style="list-style-type: none"><li>➢ Bachelor of Engineering (BEng) in Naval Architecture &amp; Shipbuilding Engineering</li><li>➢ <b>Final grade : 3.71/4.00</b></li></ul></li></ul> <div>Naval Design Maritime Science Hydrodynamic Manufacture Construction</div>  |

### EXPERIENCE

- |                                 |  |
|---------------------------------|--|
| July 2022<br>November 2021      | <ul style="list-style-type: none"><li>● <b>3D Designer and Hull Analyst - ROV W101 Project, DEPARTMENT OF NAVAL ARCHITECTURE - ITS,</b><ul style="list-style-type: none"><li>➢ Design Remotely Operated Vehicle's hull and body parts along with its full production plan</li><li>➢ Analyze stability, speed-power prediction, seakeeping ability, wave-making ability, component management, and hull form development using the numerical and experimental method</li><li>➢ Involved in the manufacturing and assembly process of ROV hull and its mechanical components</li></ul></li></ul> |
| July 2022<br>March 2021         | <ul style="list-style-type: none"><li>● <b>Undergraduate Teaching Assistant , DEPARTMENT OF NAVAL ARCHITECTURE - ITS,</b><ul style="list-style-type: none"><li>➢ Teach courses in Ship Hydrodynamic</li><li>➢ Participate in research : "Analysis of COVID-19 spread in fast boat cabin using CFD"</li></ul></li></ul>   |
| December 2021<br>September 2021 | <ul style="list-style-type: none"><li>● <b>Ship Engineer Intern, PT. PAL INDONESIA (PERSERO),</b><ul style="list-style-type: none"><li>➢ Design a concept hull for a to-be-built Frigate, calculate the total resistance and engine specification</li><li>➢ Calculate the frigate hull's load definitions and their scantling using Lyold's Register class rule</li></ul></li></ul>  |
| October 2021<br>August 2020     | <ul style="list-style-type: none"><li>● <b>General Manager, BARUNASTRA ITS ROBOBOAT TEAM,</b><ul style="list-style-type: none"><li>➢ Manage a robotic team that specializes in Unmanned Surface Vehicle research and development</li><li>➢ Direct a team consisting of three main divisions : Mechanic, Electro-Programming, and Non-Technical</li><li>➢ Lead my team to win national and international robotic competitions</li></ul></li></ul>   |

### SKILLS

Languages	Indonesia : Mother tongue , English : 98/120 (TOEFL iBT)
Programming	Python, NumPy, Pandas, Matplotlib, PyTorch, Matlab/Simulink, Git & Github, Linux
Drafting & 3D Modelling	Rhinoceros 3D, AutoCAD, Solidworks
Maritime Sciences	Hydrodynamic, Naval Architecture, Maxsurf, Ansys Fluid
Organizational	Leadership, Team Management, Team Communication

### PROJECTS & PORTFOLIOS

**MASTER'S DEGREE** 2022 - CURRENT

[Master's Portfolio](#)

Link above consists of my recent transcript, programming lab projects, and scholarship awardee agreement

**BACHELOR'S DEGREE** 2018 - 2022

[Bachelor's Portfolio](#)

Link above consists of my finished projects, certificates, and bachelor's diploma