

# EDOARDO SIROLLA

NAVAL ARCHITECT

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## STRENGTHS

### Mission driven

Focused on delivering the core business purpose. Excel at bridging the gap between engineers, stakeholders and customers.

### Confident communicator

Skilled in conveying complex ideas with charisma and conviction, leveraging a structured engineering thought process. Great at engaging audiences with confident, clear, and persuasive communication.

### Versatile and adaptable

Adjusted to moving to and from Italy and the UK throughout my school life (quickly picked up English and thrived academically).

### Determined

Eager to proactively take on significant responsibility and push through blockers to deliver the best work. Consistently achieve outstanding performance reviews, thanks to a superb work ethic, strong ambition, and unwavering focus.

## SKILLS

### LANGUAGES:

English



Italian



Spanish



### TECH AND SOFTWARE:

Rhino 3D



Orca3D



CFD



Grasshopper

Maxsurf

Python

## REFERENCES

- **SPAERA**  
Stefano Pandini, functional manager
- **QinetiQ**  
Christopher Richardsen, principal consultant

## EDUCATION

### BEng Yacht and Powercraft Design

Solent University, Southampton

**First Class Honours Degree**

Achieved a First in Naval Architecture, Structural Analysis and Computational Fluid Dynamics

### A-Levels and GCSEs

Gunnerysbury Catholic School, Brentford, London

A-level qualifications: Maths, Physics, Italian and BTEC Business

## EXPERIENCE

### Naval Architect – Full-time

July 2024 – Present

SPAERA, based in London (UK)

[www.spaera.eco](http://www.spaera.eco)

The vision at SPAERA is to design and build a truly zero-emission cargo shipping solution. Innovation in low emission shipping solutions is appealing to me as a solution-oriented thinker, and working here put me at the forefront of the transition to zero emission ships. In charge of the ship design at this small startup, I developed a focus on claiming efficiencies in hull design, propulsion, powering and seakeeping. Built concepts that make use of future fuels, alternate powertrains, and carbon capture technology to minimise lifecycle emissions from stored energy.

Used my yacht design background to develop wind-ready hullforms. Generated the methodology to fully account for the performance of the ship under wind assistance. Used CFD results to optimise the hullform, appendages and exterior design to minimise the performance knockdowns from unwanted hydrodynamic and aerodynamic forces. Acquired the skillset to holistically assess the best location for wind propulsion devices, ensuring regulatory compliance, crew confidence, and unobstructed cargo handling.

Created the datasets to build a full digital twin of a ship, with the purpose of comparing different categories of wind propulsion devices, powertrains, and hullforms to select the most financially viable technology.

Presented the design to shareholders, stakeholders, and customers, and was the technical naval architecture cornerstone for the leadership team. Wrote the technical scope for the funding grants we secured and ensured project deliverables from subcontractors were high-quality, on-time, and valuable to the company.

### **Associate Naval Architect – Full-time**

September 2023 – July 2024

### **Graduate Naval Architect – Full-time**

November 2021 – September 2023

QinetiQ, based in Gosport (UK)

[www.qinetiq.com](http://www.qinetiq.com)

In QinetiQ's Naval Architecture and Maritime Engineering group, I demonstrated my expertise in hydrodynamic testing and design consultancy services. My proficiency in solving complex hydrodynamic problems, either mathematically or through model testing, consistently enriched customer relations, by providing innovative solutions in dynamic stability, resistance, and propulsion.

My role was not only technically demanding, but also customer centric. I presented work in various internal and external forums, contributed to business support activities, and delivered comprehensive technical scopes of work, cost estimates, and breakdowns for bidding and planning purposes, leading to several successful high value bids.

I delivered complex projects by managing intricate tasks between disparate business functions. Led experimental campaigns in the towing tank and the ocean basin to above ITTC standards. Ensured that delivery was achieved with a dedication to safety by ensuring all protocol and requirements were followed to the letter, only being pragmatic when absolutely necessary with very limited risk.

Developed my technical report writing skills to a high standard, addressing reviews from chief engineers. Travelled to various international technical forums to present the work completed.

### **Yacht Designer – August to November 2021**

Shuttleworth Design, based in Southampton (UK)

[www.shuttleworthdesign.com](http://www.shuttleworthdesign.com)

After graduating in summer 2021, I started remote working for Shuttleworth Design. As part of a small design team specialised in catamarans and trimarans, I was responsible for producing all the concept 3D and 2D material presented to clients, as well as preliminary general arrangements, structural arrangements, and weight estimates.

### **Yacht Designer – June to December 2020**

GMartines Design, based in Brescia (Italy)

[www.gmartinesdesign.com](http://www.gmartinesdesign.com)

I worked remotely for Giuseppe Martines from the end of my second year of university and in tandem with my studies during the first half of my third year. I was in charge of solving time-sensitive issues, technical drawings, 3D models and construction presentations whilst working on long term projects in the background. The main character-building projects I worked on were:

- Preliminary design of a 40m sailing yacht including General Arrangement, 3D model and rendering
- 2D production drawings for both aluminium and GRP
- Production process instructions
- Design and build of a 50ft yacht cradle

Working at GMartines Design was a true formative experience in the world of computer aided design and engineering. I acquired professional skills ensuring diligence in clean surfacing, collaborative working, and clear 2D drawings for production.

### **Sailing Instructor - Summer 2015 – 2019**

- Utopia Scuola Vela
- Queen Mary Sailing Club

As instructor I lead the daily timetable for the students including sailing theory lessons, on-the-water tuition and daily chores. Utopia Scuola Vela welcomes anyone from the age of 10 and over for a week, therefore as well as teaching sailing, I took care of the accommodation for the guests, the catering and the night-time entertainment activities. This role taught me a lot about interacting with adults and teenagers alike, as well as communicating effectively with colleagues to organise the workday and to manage large groups of people.