

CYRILLE DOUILLET

Contacts	cdouillet@yahoo.com
Nationality	French, acquired New Zealand citizenship in 2003
Website	http://www.sailingperformance.com/
Work experience	<p>October 2009 – now Team Groupama Volvo Ocean Race Boat Performance Data Analyst Data collection, data analysis, database manager</p> <ul style="list-style-type: none">- Customization of proprietary tools for acquisition, processing, reporting and performance analysis- Design routing around the world with historical weather data to optimize sail choices- Development of an intranet for the team, sail management, general information and performance sharing- Loadcell data acquisition, BSG and VSpar sailvision systems- Use of Pi/Cosworth, B&G WTP3 acquisition system
	<p>October 2008 – Sept 2009 FutureFibres Valencia (Spain) Cable Performance Data Analyst (R&D Department) Data collection</p> <ul style="list-style-type: none">- Development of a custom wifi load cells, both hardware and software- Custom carbon curing temperature control software- Development of an analysis tool to study cable loading while sailing- In-house cable testing- Study of cable ageing in relation to its use- Data collection from a number of superyachts and race boats
	<p>March 2008 – June 2009 Equipo Telefonica Volvo Ocean Race Boat Performance Data Analyst Data collection</p> <ul style="list-style-type: none">- Development of a complete performance analysis package- Implementation and maintenance of a database solution- Two boat testing modules, real-time onboard and replay- Offshore sailing data collection and analysis <p>Data analysis</p> <ul style="list-style-type: none">- Evolution of the polars during the race- Advanced analysis at each stop-over- Advanced database querying tool for analysis- Sail performance comparison- Crossover chart creation <p>Weather routing</p> <ul style="list-style-type: none">- Weather routing analysis for specific sail-lists

September 2004 – June 2007 Areva Americas Cup team Valencia (Spain)

Performance Data Analyst (Design team)

Data collection

- On the water data collection, design and implementation of data distribution solution
- Work with navigator and electronics department: implementation of acquisition and calibration tools

Data storage

- Implementation and maintenance of database solution (MSSQL)

Data analysis

- Implementation of tools for querying, replay and daily reporting
- Graphing and charting tools for performance team
- Use of data-mining tool Pertinence
- Development and use of qualitative data collection and analysis (Aksiom)

Weather

- Collection, storage, distribution and analysis of weather data

Other

- IT management, implementation of security and backup procedures
- Remote access of server and synchronization while "on the road" (during the acts)

January 2004 – August 2004 BSG Développements La Rochelle (FR)

Software engineer

SailVision system for the 2007 Americas Cup

- Improvement of the current BSG SailVision system
- Design of on deck interface and post-analysis tools
- Deployment and maintenance on site of the hardware and software system (Luna Rossa 2007 Americas Cup team, Valencia)

November 2000 – June 2003 SEAmation / NavMan Auckland (NZ)

Software engineer

Software development for One World Challenge's 2003 Americas Cup team

- Planning and implementation of all software for the weather team
- Graphing and charting of wind data, database storage, analysis and replication
- Maintenance and monitoring of wireless network on the race course
- First shift calculations, wind field interpolation, wind prediction models
- Race boat performance analysis software, race analysis replay module

May 2000 – September 2000 Auckland UniServices Ltd. Auckland (NZ)

Wind-tunnel manager

- Improvement of procedure for the testing of yacht sails
- General maintenance and management

November 1999 – May 2000 Kiwitech Ltd Auckland (NZ)

Software designer and tester

- Part-time work as software tester and designer on Kiwitech Navigator (now Raytech) electronic marine charting
- Computation and display of optimized route using weather forecast GRIB files

Skills and Education	<ul style="list-style-type: none"> - Microsoft .Net programming - Advanced mathematical analysis skills - Microsoft networking - SQL database design, management, replication - Measurement Studio (National Instruments)
	<p>July 1998 - November 2000 Auckland University Auckland (NZ)</p> <p>Masters of Engineering at the Yacht Research Unit</p> <ul style="list-style-type: none"> - Solving the incompressible Navier-Stokes equations, testing various turbulence models on a two-dimensional mast and sail section - Use and modification of the C++ software package Overture to generate and solve turbulent CFD problems on composite overlapping grids
	<p>September 1994 - June 1998 National Institute of Applied Sciences Toulouse (Fr)</p> <p>Engineering Degree</p> <ul style="list-style-type: none"> - French Engineering school in the field of Mathematical Modelling
Sailing experience	<p>2011 Training on Groupama VOR70</p> <p>2008 Training on Telefonica VOR70</p> <p>2007 Navigator on 160ft Herreshoff schooner for summer classic regattas in Mediterranean (1st Voiles de St Tropez, 3rd Régates Royales de Cannes)</p> <p>2007 Charter of Maricha IV from Dubrovnik (Croatia) to Cherbourg (France)</p> <p>2007 Sailing on ACC boats FRA60 and FRA93</p> <p>2004 Tour de France Voile on Mumm30</p> <p>2004 French national match-racing championship (9th)</p> <p>2001, 2003 Auckland to Fiji yacht races</p> <p>2000-2003 NZ national match-racing umpiring seminars, Auckland winter match race series</p> <p>2000 NZ 12 ft skiff nationals</p>