



October 28, 2019

## Update: Emirates Team New Zealand

### Junior Data Acquisition / Mechatronics Engineer wanted.

**Emirates Team New Zealand are looking for a talented and enthusiastic electronics, mechatronics or mechanical engineer to contribute to the development and calibration of sensors and data acquisition systems on Emirates Team New Zealand's race yacht that will defend the America's Cup in 2021.**

Sensors are a massive part of the competition: from helping to control the systems on yacht, to providing the instruments that guide the sailors, and collecting data for designers to analyse, we need to excel across all areas to be competitive.

You will be working with Emirates Team New Zealand's design and build team, an extremely talented group of engineers, boat builders and technicians that cover many disciplines. We are a team, not a company, and this isn't a typical nine-to-five... you will need to be committed and hard-working, and the rewards in seeing your work contribute to sailing success will give you job satisfaction you won't find elsewhere.

You will be involved with the specification, manufacture, testing and calibration of a wide range of electronic systems and benefit from the experience of an existing small team of very skilled engineers. Despite being a small group with a unique focus, we are serious about accuracy, sensors and electronics; we are keen to use the latest technologies, and we work to very high standards.

The role:

- Work with design engineers to understand sensor requirements.
- Research instrumentation options and test new equipment.
- Manage the calibration of sensors, including load cells, IMUs, cameras, fibre optic strain sensors.
- Provide on-the-water support of sensors as required.
- Adapt as required through the campaign!

Depending on your specific skills, you could also be involved in:

- Design and prototyping in-house electronics and electrical devices
- Design of mechanical parts for sensors or sailor input devices, including 3D printing
- Development of software we run on the yacht for processing sensor data
- Development of software for live and historic display of sensor data (JavaScript React)
- Development of PLC code that controls the hydraulic systems on the yacht (we use Beckhoff)

What we're looking for:

- A degree in electronics, mechatronics, or mechanical engineering
- If you are an electrical engineer, a good understanding and intuition of mechanical systems, calibration and measurement
- If you are a mechanical engineer, some experience in electronics and/or software development
- Talent, commitment and an enthusiasm for mechatronics.
- A meticulous eye for detail and a love of being organised.
- Ability to work and communicate well within a team, but not need 24-7 supervision.
- Ability to work under pressure, and work long hours when required.
- NZ citizen or existing work permit.
- Someone who can start by the end of November.

To apply visit the [Emirates Team New Zealand website](https://emirates-team-new-zealand.americascup.com/) or [Seek](#).

*maxon motor Australia is an Official Supplier to Emirates Team New Zealand. We follow the progress of their journey as Defender in the 36<sup>th</sup> America's Cup campaign, March 2021.*

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**maxon motor Australia Pty Ltd**  
Unit 1, 12-14 Beaumont Road  
Mt Kuring-Gai NSW 2080

Tel: +61 2 9457 7477

[sales.au@maxongroup.com](mailto:sales.au@maxongroup.com)  
[www.maxongroup.net.au](http://www.maxongroup.net.au)  
Twitter @maxongroupAus

**Emirates Team New Zealand**

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