



## JOB ROLE TEMPLATE

<b>Role</b>	Electrical Engineer (Prototyping / VHDL Engineer)
<b>Reports to</b>	VP Engineering
<b>Line Management Responsibilities</b>	<ul style="list-style-type: none"><li>• Status &amp; progress reporting of specific engineering project and support activities to VP Engineering and Project Management.</li><li>• Report to VP Engineering on specific improvement aspects, both related to design &amp; development (design choices, technologies, key-component &amp; supplier options) as well as process &amp; organization (way-of-working, tooling).</li></ul>

### Job Summary/Purpose

As Electrical Engineer (Prototyping / VHDL Engineer), you will be part of the Liquavista System Engineering organization. Location of this position is Eindhoven, where you will be designing concepts in both analog and digital electronics i.e. HW and SW (VHDL and C++) for electrowetting display platforms (e/g system electronics, power management, video processing), and build demonstrators and other early prototypes.

### Key Result Areas

Success will be defined by contributed:

- Number of successful platform developments & deliverables (e/g display module engineering samples, concept demonstrators and optimizations).
- Number of successful design transfers to product development and/or strategic partners.
- Number of successful demonstrator designs & events.

### Key Responsibilities

- Support the development & prototyping of breakthrough display module electronics HW and related SW (VHDL/ C++) especially in the domains of display driving, power management, video processing / display rendering and general module electronics.
- Do the actual design, concept implementation through analog/digital (FPGA, uC) HW and SW (VHDL, C++) prototyping and demonstration on selected platform tools.
- Support the display test & reliability activities, with the necessary electronics HW/SW designs and hands-on engineering support.
- Support key customer demonstration events and/or design-in support activities, with the necessary electronics HW/SW designs and hands-on engineering support.
- Contribute in optimal design flow choices for HW/IP development from prototype to key-component (ICs, discretés) implementation.

### Key Skill sets

- Degree in Electrical Engineering (BSc).
- More than 5 years experience in the electrical engineering field with up-to-date expert knowledge in analog as well as digital electronics (HW design, FPGA / VHDL prototyping, uC design, C programming).
- Knowledge on HW/SW design flows is preferred.



- Highly desired is expertise on & affinity with display electronics, e/g display driving (LCD), video processing, image rendering IP development and related mathematics (i.e. scaling, color space conversions, matrix calculation) and/or advanced analog electronics (i.e. power conversion, high-speed I/O)
- Creative and pragmatic innovator
- Good communication skills (English, both written and verbal).
- Team worker
- Flexible in dynamical working area
- Travelling for the business & development is no issue

#### **Key Contacts**

##### Internal

- Platform development: via systems & electrical engineering (drive scheme development, HW/SW prototyping, demonstrator implementation & optimization) and other hands-on support.
- Cell innovation: via interaction on fundamental electrowetting cell design and the required electronic driving optimization
- Test & Characterization: via specific electronics engineering and hands-on support.
- New business development: via support of demonstrator kits & enabling of customer events.

##### External

- Suppliers: via project activities.
- Identified (key) customers & co-developments: via project activities.

#### **Contact information:**

If you are interested in this position, please address your application to: Liquavista B.V.  
F.a.o.: S. Fitzpatrick, De Witbogt 10, 5652 AG Eindhoven, The Netherlands or you could send an email to [sally.fitzpatrick@liquavista.com](mailto:sally.fitzpatrick@liquavista.com).

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