

# Adrien Courdier

Systems engineer

Amsterdam, NL | +31611484484 | adrien.courdier@pm.me

As a multi skilled systems engineer, my passion for technology and energy topics has driven my career. I am committed to contributing to the transition of the industry toward smarter and sustainable technologies.

## EXPERIENCE

**Field Engineer / Controls Specialist** 03/19 – Now  
**Control-Care b.v. | Schiphol-Rijk (NL)**  
Turbomachinery controls engineering and field service

- ◆ New solutions and retrofits for oil & gas, power generation, chemical industries.
- ◆ International field services: commissioning, troubleshooting (FAT, SAT).
- ◆ Lead of development of in-house, web-based asset monitoring and diagnostics platform (predictive maintenance, asset management with AI tools).
- ✓ Successfully performed several control and protection system retrofits internationally and in highly varying working environments and teams.
- ✓ Ported and contributed to development of anti-surge control and protection algorithms, steam turbine control algorithms and performance control algorithms.

**Data Acquisition Engineer** 05/16 – 03/19  
**Measurepoint Ltd. | Felixstowe, Suffolk (UK)**  
Hardware, software and service provider with expertise in gas turbine combustion testing

- ◆ High pressure gas turbine combustor testing for various OEMs (Ansaldo Energia, PSM, GE, Rolls-Royce) at German Aerospace Centre (DLR, Cologne).
- ◆ Hardware and software commissioning, troubleshooting under high pressure during time critical testing phases.
- ✓ Mastered complex data acquisition system, managed local network, designed and adapted many HMIs.
- ✓ Engineered reliable hardware and software pieces for many types of instrumentation using various communication protocols.

**Project Engineer** 09/13 – 09/14  
**Thermal Power Institute, HEIG-VD | Yverdon (CH)**  
Energy retrofit of a building using sustainable technologies as part of an EU-funded project.

- ◆ Delivered innovative concepts based on energy consumption simulations and measurements along with estimated costs. Successful project completion.

## EDUCATION

**MSc in Thermal Power - Gas Turbine Technology option** 09/14 – 09/15  
**Cranfield University | Cranfield (UK)**

Comprehensive and detailed background in design and operation of different types of gas turbines for all applications (industrial, aviation).

Thesis: Gas turbine engine diagnostics using neural networks (grade: 83%)

**BSc in Systems Engineering** 09/10 – 09/13  
**Major in Thermal and General Engineering**  
**University of Applied Sciences of Western Switzerland | Yverdon (CH)**

Industrial thermal systems and processes, turbo-machinery, renewable energies, distribution networks. Thermodynamics, heat transfer, combustion.

## INFORMATION

Age : 33  
Nationality : French  
Driving licence : B

## SKILLS

### Able to effectively:

- ✓ Working in a team or individually
- ✓ Design and innovate
- ✓ Troubleshoot complex systems
- ✓ Test and commission systems
- ✓ Work under high pressure
- ✓ Adapt to new environments

### Technical skills

#### Engineering:

- ◆ Electrical: instrumentation, control cabinets, wiring diagrams, electronics.
- ◆ Mechanical: CAD drawings and design.
- ◆ Thermal: heat transfer, thermodynamics, energy calculations.

#### Development:

- ◆ Python, .NET, bash
- ◆ Web: Django, Nginx, HTML/CSS/JS
- ◆ Data science (Scikit, Pandas, ...)
- ◆ NI LabVIEW
- ◆ IEC 61131-3 PLC languages

#### IT:

- ◆ Linux
- ◆ Network configuration, security and maintenance
- ◆ Industrial networks: Modbus, Profibus, OPC DA/UA
- ◆ SCADA
- ◆ CI/CD: Azure DevOps, Git, Docker
- ◆ Virtualisation: VMWare, Qemu, HyperV

### Personal projects:

- ◆ Raspberry Pi: cloud server, Pi-hole, website hosting, VPN server

## LANGUAGES

- ◆ French: C2 (Native)
- ◆ English: C2 (Fluent)
- ◆ Dutch: B1-B2 (Elementary)
- ◆ German: A1 (Beginner)

## CERTIFICATIONS & TRAININGS

- ◆ Certified LabVIEW Developer (CLD)
- ◆ VOL VCA (valid until 2029)
- ◆ BOSIET