

Adrien Courdier

Systems engineer

Visit my portfolio at <https://acourdier.github.io/>

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As a multi skilled systems engineer, my passion for technology and energy topics has driven my career since the start. I am committed to contributing my knowledge and experience to the maintenance and improvement of the industry toward smarter and more sustainable technologies.

EXPERIENCE

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

- ◆ New control systems solutions and retrofits for major oil & gas, power generation, chemical industries (PLC, DCS).
- ◆ International field services: FAT, commissioning (SAT), on-call troubleshooting.
- ◆ 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 multiple working environments (inc. offshore) and teams.
- ✓ Ported and contributed to development of in-house anti-surge control and protection, steam turbine control 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 testing 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 : 34
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, Matlab
- ◆ Web: Django, Nginx, HTML/CSS/JS
- ◆ Data science (Scikit, Pandas, ...)
- ◆ NI LabVIEW (real time, FPGA)
- ◆ IEC 61131-3 PLC languages

IT / OT:

- ◆ Linux
- ◆ Network configuration, security and maintenance
- ◆ Industrial networks: Modbus, Profibus, OPC DA/UA, TCP/IP
- ◆ Siemens S7, ABB 800xa, AllenBradley
- ◆ CI/CD: Azure DevOps, Github
- ◆ Virtualisation: VMWare, Docker, Qemu

Personal projects:

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

LANGUAGES

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

CERTIFICATIONS & TRAININGS

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