



Data ETL developer focused on automated data pipelines



## ABOUT ME

ETL developer specializing in automated data pipeline solutions using pySpark/Databricks within the Finance domain. I am currently contributing to the digital transformation within the Schneider Electric finance department. Previously, I worked as a mechanical design engineer focusing on aircraft turbomachinery.

## WORK EXPERIENCE

2022 – Now

### Data Analyst (Schneider Electric)

**Responsibility:** ETL for Finance digital transformation.

- Creating and updating automated pipelines on Databricks to transform financial data based on stakeholders' requirements.
- Driving Master Data for FIDS department,
- Optimizing Spark code for performance improvements.
- Exploring data to identify and report inconsistencies or faulty logic.
- Creating automated data tests for delivered Data Objects.
- Working with SAP transactional data, master data and hierarchies,
- Translating stakeholders' requirements into a set of clear instructions for developers to implement requested product increment,
- Presenting the released product in front of stakeholders.

2022

### Staff Design Engineer (EDC / GE Aerospace)

**Responsibility:** Rotating parts design and technical mentoring.

- Technical mentorship to other team members and junior staff in support of enlarging the team.
- Participating in hiring process – interviewing candidates for employment.
- Supporting other engine lines with QEM closures providing expertise in creep analysis.



## WORK EXPERIENCE

2016 – 2022

### Lead / Advanced Lead Design Engineer (EDC / GE Aerospace)

**Responsibility:** Rotating parts design for GE Catalyst compressor (NPI).

- Design owner for various compressor rotor parts from the conceptual stage to product introduction (FEM analysis, calcs and getting approval from CCE),
- Working with suppliers, CCE and program leadership to work out the best solutions from a program deliverables perspective to execute on-time hardware delivery in support of engine tests,
- Designing module interfaces,
- Modifying existing design based on test engine requirements allowing to lead and install required instrumentation.
- Strong focus on cooperation with MFG sources to refine existing processes, inspection methods and design definition to ease manufacturability.
- Providing continuous on-site support for manufacturing, assembly, instrumentation and engine tests.
- Proposed improvements to design practices and became co-author of best practice for Compressor Airfoil Creep analysis
- Created a tool that supports the balancing process (automate balancing weights placement and selection),
- Defining Engine Service Manual limits for rotating parts of the compressor based on a series of fracture analyses required by the design practice,
- Created a tool that allowed to identify if high-order excitation can appear as a low-order forward/backward traveling wave and cause resonance with low-order modes.
- Providing continuous support to less experienced engineers and new team members.

2015 – 2016

### Design Engineer (EDC / GE Aerospace)

**Responsibility:** Rotating parts design for CT7-2E1/2F1 compressor (NPI).

- Coordinating efforts to execute NPI milestones.
- All aspects of design including managing analysis resources, design reviews with CCE, working with suppliers for on time hardware delivery in support of engine test and production engine builds.
- Creating FEM models, performing analyses, documenting results and presenting all aspects of new design in front of CCE.
- Deep dive into bolted joint design: 2D and 3D FEM modeling for compressor rotor joint behavior under both axisymmetric and asymmetric loads.



## WORK EXPERIENCE

2013 – 2015

### Junior Design Engineer (EDC / GE Aerospace)

**Responsibility:** MFG support and rotating parts design for CT7-2E1/2F1 compressor.

- Design owner for CT7 Impeller re-design NPI program,
- Establishing scope, schedule and cost to meet program requirements.
- Presenting deliverables on tech reviews, engine systems tech reviews, product control board business reviews,
- Design calcs & 2D/3D FE analyses (static stress, burst, LCF/HCF, sub-modeling, mesh morphing),
- Product definition & CAD modeling
- Manufacturing support (non-conforming material dispositions (MRB) including repair authorization, hardware requirement refinements for cost reduction)
- Engineering documentation (tech reports, component drawings, engineering parts lists, engine shop/maintenance manuals)

## EDUCATION

2012 – 2013

### M. Sc. in Mechanical Engineering (CAE focused)

**School:** Warsaw University of Technology

**Thesis:** "Weld modelling using FEM"

2007 – 2011

### B. Sc. in Mechanical Engineering

**School:** Warsaw University of Technology

**Thesis:** "Wear modelling of intervertebral disk replacement using FEM"

## OTHER

### Soft skills:

- Technical mentoring
- Recruitment
- Presenting skills
- Work under pressure
- Multitasking

### Hobbies & interests:

- Tennis
- Cycling
- 3D printing
- Astrophotography
- Developing Mobile apps

### Other:

- Microsoft Office
- Adobe photoshop
- Confluence
- Jira
- Arduino prototyping