## Master Engineer of Rzeszow University of Technology

Faculty of Mechanical Engineering and Aeronautics







## INVEST REM SP Z O O

#### <u>10.2007 - 02.2008</u> INVEST-REM in Mogilno

Operator of industry laser, mechanical presses and other industrial machines.

Mechanical press



Riveting machine

Bending machine



Industry laser



Drilling machine





October 2008 - 10<sup>th</sup> October 2014 Rzeszow University of Technology Engineer diploma thesis

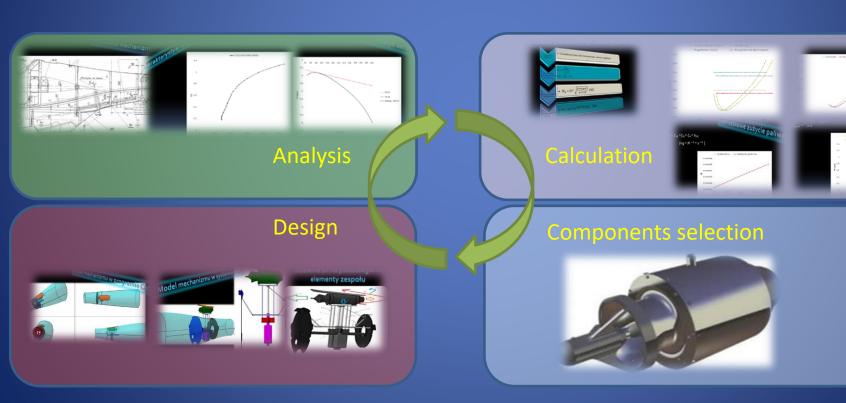
Faculty of Mechanical Engineering and Aeronautics Department of Aircraft and Aircraft Engines

**DIPLOMA THESIS ABSTRACT** 

Subject: Design of accessory engine to the glider.

#### **Abstract:**

This engineering work has created the way how design accessory engine to the ready glider which it will be fixed to part of fuselage.



Faculty of Mechanical Engineering and Aeronautics Department of Aircraft and Aircraft Engines

October 2008 - 10<sup>th</sup> October 2014 Rzeszow University of Technology Master diploma thesis



Metoda VLM

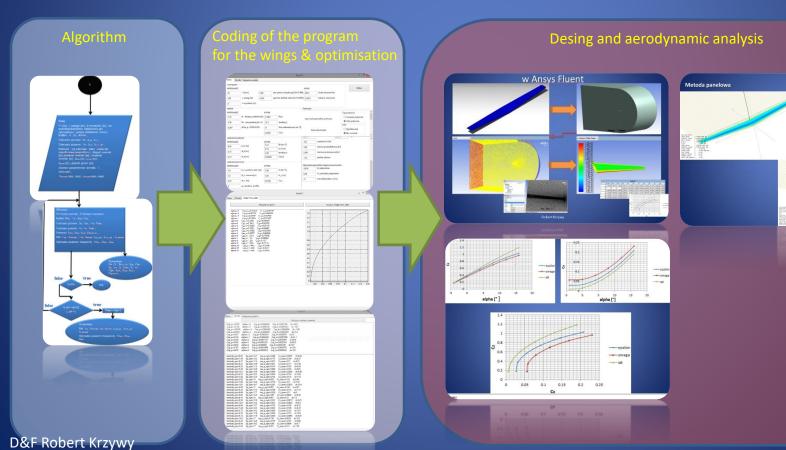
#### **DIPLOMA THESIS ABSTRACT**

Subject: Optimization and analysis of aerodynamic load of wing.

#### Abstract:

This work is introduction to the final concept of the design of the aircraft wings.

- 1) Program has been created to optimize the wings
- 2) Design has been done in Catia V5
- 3) The aerodynamic analysis have been launched for comparison of some mathematical models in Ansys Fluent & X-FLRa.

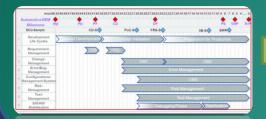




#### 12.2014 - 07.2017

#### Constructor / Design Engineer at Faurecia Grojec R&D Center

#### Milestone program





#### 1.3D

All design from single component -> full assembly with variants and kinematic

#### 2.Stack-up

Verification of the chain of tolerance

#### 3. Drawings

GD&T or ASME 14.5:

All drawings from prototypes variant to final production via single -> sub-assembly-> assembly -> customer drw. -> explode view

#### 4. Calculation

All major calculation related to the whether mechanical or proces steps have been implemented

#### **Validation**

- 1. Prototype
- 2. Dimension measurement
- 3.Tests
- 4.Results



START OF PRODUCTION (SOP)



#### Validation









| The control of the



Component Design Project Engineer at Yazaki Europe Limited in Coventry
-> Delegated to Jaguar Land Rover in Gaydon





#### NOK Validation

#### Milestone program

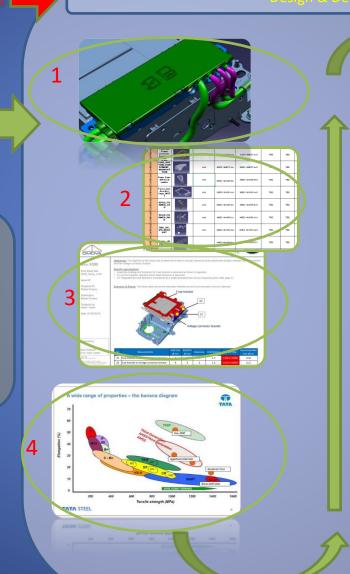


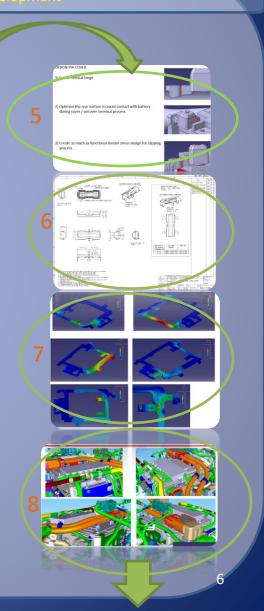
#### **Design & Development**

- 1. **3D**
- 2. Bill Of Material (BOM)
- 3. Stack-up

Verification of the tolerances chain

- 4. Material selection
- 5. Design Failure Mode Effect Analisis (DFMEA)
- 6. **Drawings**
- 7. Finite Element Analysis (FEA)
- 8. Package review







#### 08.2017 - 03.2019

Component Design Project Engineer at Yazaki Europe Limited in Coventry
-> Delegated to Jaguar Land Rover in Gaydon





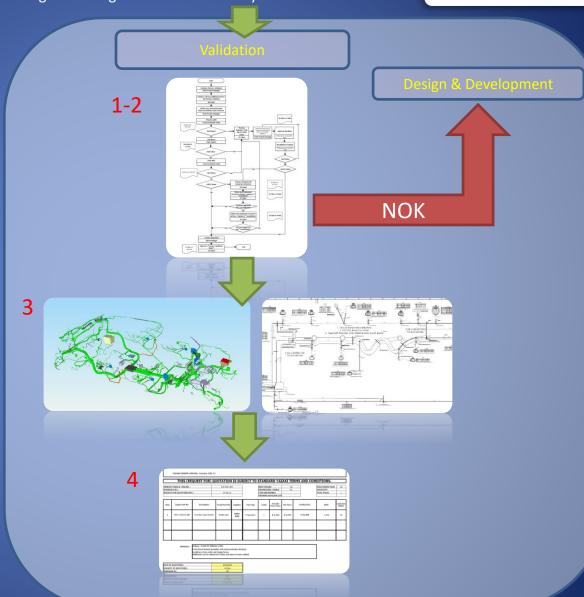


#### **Validation & Distribiution**

- 1. Requirement for validation
- 2. Test
- 3. Final Products
- 4. Request For Quatetion (RFQ)



START OF PRODUCTION (SOP





#### 12.2020 - 03.2021

# Quality Resident Engineer at Exact Systems GmbH delegated to Faurecia





#### Qaulity of the product On-Site of the customer

- 1. Inspection of the delivery according to the risk of failures
- 2. Quality inspection all of the products and rework when products were out of standards
- 3. Creating the catalog of production failures and reporting them
- 4. Create a control plan , quality specifications , participate in product modification



### 4. Control plan , specification , product modification



#### 2. Quality Inspection



#### Catalog of defects



D&F Robert Krzywy





# Wire · Cable · Wiring Systems

03.2021 - 08.2021

Quality Project Manager at Exact Systems GmbH delegated to Leoni Wiring Systems

#### Role:

- 1. Participation in contract assigment .
- 2. Monitoring the flow between manufacturer and final customer (Quality Wall implementation ) .
- 3. Controling and implementing the number of Quality Inspectors , Leaders and Controlers based on Ramp up plan in the weekly basis (the number of QI were between 10-45). Employing, schedule , monitor , assess and fill all working hours of Quality Inspectors .
- 4. Providing the control station and all necessary tools for the Quality Inspection .



D&F Robert Krzywy



D&F<sub>X</sub>
Robert Krzywy

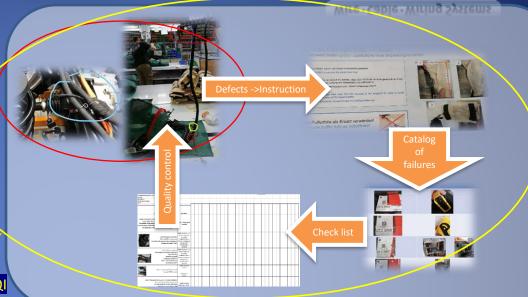


03.2021 - 08.2021

Quality Project Manager at Exact Systems GmbH delegated to Leoni Wiring Systems

#### Role:

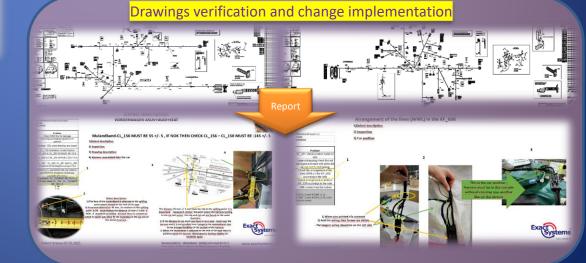
- 5. Creating a cotrol plan.
- 6. Creating a catalog of defects .
- 7. Creating and up to dating the check list for Quality Inspection .
- 8. Creating the evidence for inspected product to avoid any claims from customer .



#### Evidence of QI

#### Role:

- 9. Cooperating with Design Department and modified the drawing definition .
- 10 . Reporting to the supplier the failures by presentation of the design documents and quality of the current product .



D&F Robert Krzywy





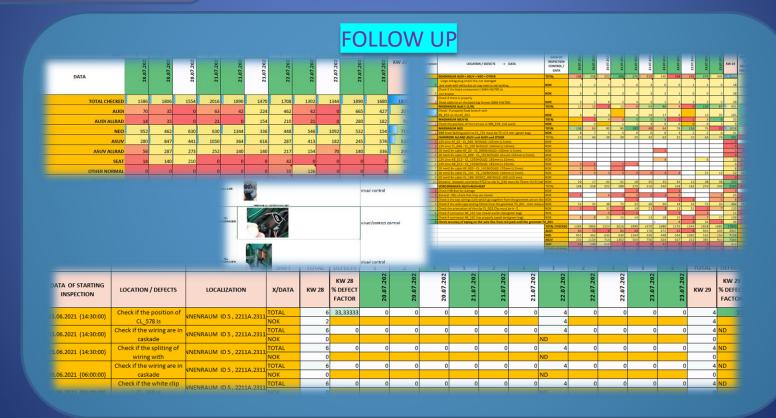


03.2021 - 08.2021

Quality Project Manager at Exact Systems GmbH delegated to Leoni Wiring Systems

#### Role:

- 11 . Creating the follow up in daily basis and monitoring the supplier's improvement of production for specific cars set.
- 12. Generating the customer invoice.









#### 09.2021 - 10.2021

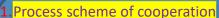
Novares Resident Engineer at at Exact Systems
GmbH delegated to BMW Dingolfing

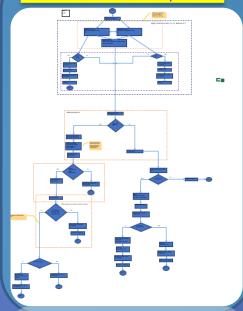
#### Role:

- 1. Creating the process scheme of cooperation between Novares and BMW on BMW site
- 2. React on BMW claims:
- 2.1 Analysing current defects
- 2.2 Doing accurate measurement
- 2.3 Doing a rework if possible
- 3. Approving new component after tool modification by testing statically and dynamically (driving test)

# 2.1 - 2.3 Reacting when the failures are appeared on-site of the customer



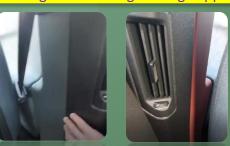




#### 2. BMW claim



3. Static & Dynamic Validation inside the car during the driving test for design change approval.







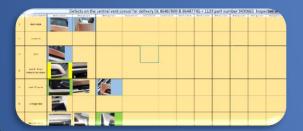


#### 09.2021 - 10.2021

Novares Resident Engineer at at Exact Systems GmbH delegated to BMW Dingolfing

#### Role:

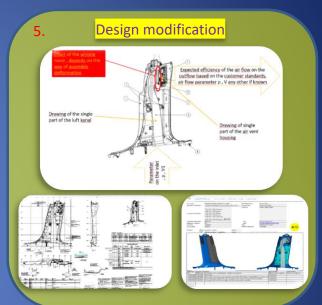
- 4. Creating the presentations to provide clear status of issues and all measurements .
- 5. Cooperating with Design department to solve the problem which have appeared by design modification and description .
- 6. Negotiation and agreement related to the defects with BMW . Creating approved catalog of the defects .
- 6. Up to dating the control plan.
- 7. Creating the regular follow up to track continuously the work .
  - 6. Customer agreed defect catalog



7. Control plan actualization









## **D&F Robert Krzywy**

Thank you for your attention!
I am flexible and open for cooperation World wide

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