|  |  |
| --- | --- |
| Olek Domaratskiy | E-mail: [mr.domaratskiy@gmail.com](mailto:mr.domaratskiy@gmail.com) |
| Aerospace | Design | Analysis | LinkedIn: <http://linkedin.com/in/alexdom> |

Summary

* Commuter and transport category aircrafts. Structural and System design
* Primary and secondary structure. Fuselage, Wing, Propulsion. Development, modification and structural repair
* Aircraft satellite antennas and structural components
* Metallic, Composite, Honeycomb and Hybrid structures
* Finite Element Modeling (FEM) and Classical hand calculation. Automation(scripts) of FEM and Hand analysis

|  |  |
| --- | --- |
| Analysis: | Static, Fatigue, Damage Tolerance, Vibration, Dynamic(CFD), Thermal |
| FEA: | Abaqus, Femap, MSC.Patran/Nastran |
| CAD/CAE: | AutoCAD, Catia, Creo, SolidWorks |
| Applied: | MathCAD, MS Office |
| Programming: | C++, Python, Bash, VBA, MathLab, |
| OS: | Unix/Linux, Windows |

Education

|  |  |  |  |
| --- | --- | --- | --- |
| **National Aerospace University – 'Kharkiv Aviation Institute'** – [www.khai.edu](https://www.linkedin.com/school/658198/) | | | |
| M.S. | Aerospace Engineering, Structural Design | B.S. | Computer Science, Computer Aided Design |
| 1998 – 2005. Kharkiv, Ukraine | 1998 - 2003. Kharkiv, Ukraine |

|  |  |
| --- | --- |
| **Sr. Mechanical Engineering Analyst at Carlisle Interconnect Technologies** | **Franklin, WI** |

Oct 2017 – Present

Airbus and Boeing. Single-aisle and Tween-isle commuter fleet. Fuselage modification. Engineering and consulting efforts. Supplemental type certification activity support for aircraft modifications via analysis. This has included: Static, fatigue, damage tolerance and modal analysis of structural and electrical system components.

Software and methods used: MSC.Nastran/Patran, Creo, AutoCAD, MS Office with Classical hand analysis. Used programming skills to automate FEM Pre/Post-processing and loads developing (VBA macro).

|  |  |
| --- | --- |
| **Sr. Structural Engineering Analyst - Contract at Global Eagle** | **Lombard, IL** |

May 2017 – Oct 2017 (6 mos)

Boeing single-aisle fleet. Fuselage modification. Job is done in Super-fast very-tight schedule time frame. Provided design modification support via structural analysis. Responsibilities implied design development supported by structural analyses: Static, fatigue, damage tolerance and vibration(windmilling) analysis of structural and electrical system components. Software and methods used: Femap, SolidWorks, MS Office with Classical hand analysis. Used programming skills to automate FEM Pre/Post-processing and loads developing (Python, VBA macro).

|  |  |
| --- | --- |
| **Structural Analysis Engineer - Contract at Boeing** | **Renton, WA** |

Sep 2013 – Aug 2015 (2 yrs)

Boeing single-aisle Nacelle design and repairs. Design developing and structural repairs support via analysis. This included engineering and consulting efforts in Static and Fatigue analyses for secondary structure components including metallic, honeycomb and composite.

Software and methods used: Boeing tools, MSC.Nastran/Patran, Catia v5, MS Office with Classical hand analysis.

Used programming skills in reports generation (MS VBA macro) and to automate FEM Pre/Post-processing and loads developing (Python).

|  |  |
| --- | --- |
| **Structural Analysis Engineering Specialist at Progresstech** | **Moscow, Russia** |

Apr 2005 – Sep 2013 (8 yrs 6 mos)

Boeing tween-aisle commuter and cargo fleet. Cessna Citation fleet. Fuselage, Doors, Wing, Pylon, Nacelle. Design developing, structural repairs and type certification support via analysis. This has included engineering development and consulting efforts in Structural analysis for customers including Boeing and Spirit AeroSystems.

Programs covered: 747-LCF, 747-8, 787, 777, 767-BCF, Cessna Citation.

Responsibilities included:

Analysis methods development. Static, fatigue, damage tolerance and thermal analyses. Finite Element Modeling (FEM) and Classical hand calculation of metallic, composite and hybrid structural components.

Software and methods used: Boeing tools, MSC.Nastran/Patran, Femap, Abaqus, Catia v4/v5, MathCAD, MS Office with Classical hand analysis.

Used programming skills in reports generation (MS VBA macro) and to automate FEM Pre/Post-processing and loads developing (Python, Mathlab).

|  |  |
| --- | --- |
| **Mechanical Engineering Intern at Antonov** | **Kyiv, Ukraine** |

Jul 2004 – Apr 2005 (10 mos)

Antonov AN-148. Airframe structure developing support via analysis. This has included engineering efforts in design sketching and finite element modeling.

Software and methods used: CosmosM, MathCAD, Catia v5 with Classical hand analysis. Used programming skills in technical reports generation (MS VBA macro).

|  |  |
| --- | --- |
| **Technical Drafter at National Aerospace University – 'Kharkiv Aviation Institute'** | **Kharkiv, Ukraine** |

Feb 1999 – Jul 2001 (2 yrs 6 mos)

Antonov AN-74. Secondary structure manufacturing support via drafting and finite element modeling.

Software and methods used: Matra Datavision Open CASCADE, Euclid, Mathlab.