JÉDERSON DA SILVA

Nationality: Brazilian.
Date of Birth: October / 28th / 1990
Marital Status: Married.
Address: Rua Capitão Leônidas Marques, 1768 BL 2, AP 27 - Curitiba, Paraná, Brazil

Mobile: +55 (46) 9922-8366
E-mail: dasilva.jederson@gmail.com

Education:

2008 – 2012   Federal Technological University of Paraná (UTFPR).
Degree: Bachelor in Mechanical Engineering.

2013 – 2014   Federal University of Paraná.
Master's Degree - Mechanical Engineering
Emphasis on Mechanical Projects / Mechanics of Solids (Finite Element Method).

2015- actual   Federal University of Paraná.
Doctorate's Degree - Mechanical Engineering
Emphasis on Mechanical Projects / Mechanics of Solids (Finite Element Method).

Work Experience:

Date (October, 2015- Actual): Federal Technological University of Paraná (UTFPR)
Professor
Mechanical Engineering Department, 40 hours per week.
Disciplines: Mechanics of Solids and Dinamic.

Date (August, 2013 – February, 2014):   **Federal University of Paraná**
Substitute teacher - Mechanical Engineering Department, 40 hours per week.
Disciplines: Mechanics of Solids and Static.

Date (January, 2012 – August, 2012):   **Atlas Eletrodomésticos**
Internship in Process Engineering.

Main Activities:
- Process Control and Quality Control – Standard deviation, error proofing, optimization through statistics analysis, tasks and job descriptions aiming time and cost effectiveness.
- Monitoring the implementation of new progressive Stamping Line – Project budgeting, definitions of optimal layout, transport, moving and storage options of stamped parts.
- Dimensioning, budget, selection and monitoring of ventilation systems and compressed air system.

Date (January, 2011 – March, 2011): Atlas Eletrodomésticos

Internship in Process Engineering.

Main Activities:
- Monitoring Production Processes.
- Optimization of Factory Layout.

ACADEMIC EXPERIENCE:

February 2013 – 2014
Research Project - Structural topology optimization using Finite Element Method.
This work has as main goal of obtaining an optimal topology for a mechanical component, aiming the lowest possible mass with tensions restriction.

2012
Completion of position paper entitled **Project and Installation of Flamotubular Boiler in UTFPR.**
Area: Thermodynamics and heat transfer.

2010 – 2011
Extension Course in Automotive Maintenance - Federal Technological University of Paraná - Fellow of the Araucaria Foundation and Support of Scientific and Technological Development.
This work had as main goal the development of qualified professionals in the field of automotive maintenance.

FULL PAPERS PUBLISHED IN JOURNALS:

BERTONI, JEAN CLEBER; PARIONA, MOISÉS MEZA ; BRINATTI, ANDRÉ MAURÍCIO ; TELEGINSKI, VIVIANE ; SILVA, JEDERSON . Qualitative Identification of phases of Al-1.5 wt.% Fe treated by laser surface remelting by means of grazing incidence X-ray diffraction. Matéria (UFRJ) ^{JCR}, v. 20, p. 882-897, 2015.

COMPLETE WORKS PUBLISHED IN PROCEEDINGS OF CONFERENCES:

SILVA, J.; GUBAUA, J. E. ; DICATI, G. W. O. ; PEREIRA, J. T. . Analysis of different methods to prevent the formation of similar checkerboard pattern at a two-dimensional analysis bone remodeling. In: CILAMCE, 2015, Rio de Janeiro. Congresso Ibérico Latino Americano de Métodos Computacionais em Engenharia, 2015.

DICATI, G. W. O. ; GUBAUA, J. E. ; **SILVA, J.** ; PEREIRA, J. T. . Analysis of bone remodeling via Stanford anisotropic model two- and three-dimensional models of the human fêmur. In: CILAMCE, 2015, Rio de Janeiro. Congresso Ibérico Latino Americano de Métodos Computacionais em Engenharia, 2015.

SILVA, J.; GUBAUA, J. E. ; DICATI, G. W. O. ; PEREIRA, J. T. . Analysis of bone remodeling using H-Adaptivity in a two-dimensional model of a human fêmur. In: V SMNC, 2015, Curitiba. V Simpósio de Métodos Numéricos Computacionais, 2015.

SILVA, J.; SILVA, F. E. C. ; PEREIRA, J. T. ; GONCALVES, J. C. L. . A discussion of h-adaptivity in the Finite Element Method applied to the beam problem of Euler-Bernoulli. In: V

SMNC, 2015, Curitiba. V Simpósio de Métodos Numéricos, 2015.

SILVA, JÉDERSON DA; SILVA, FRANCIELLY ELIZABETH DE CASTRO ; PEREIRA, JUCÉLIO TOMÁS ; GONÇALVES, JOÃO DO CARMO LOPES . ANALYSIS OF ERROR ESTIMATORS DIFFERENT SUBSEQUENTLY APPLIED TO PROBLEMS USING TWO-DIMENSIONAL REFINING H-ADAPTIVE. In: Congresso Nacional de Matemática Aplicada à Indústria, 2015, Caldas Novas. Anais do Congresso Nacional de Matemática Aplicada à Indústria. São Paulo: Editora Edgard Blücher. p. 695.

PORTOLLAN, C. A. ; LAFAY, J. S. ; KOLZER, J. F. ; **SILVA, J.** ; SLONGO, B. L. Increased Distribution Load Factor Restricting the Use of Electric Showers. In: Congreso Internacional de Distribucion electrica (CIDEL), 2010, Buenos Aires. CIDEL ARGENTINA, 2010.

ABSTRACTS PUBLISHED IN PROCEEDINGS OF CONFERENCES:

SILVA, J .; GUBAUA, J.E.; DICATI, G. W. O.; PEREIRA, J. T.. Smoothing spatial field density for inhibition similar pattern checkerboard in the process of bone remodeling .. In: XVI Brazilian Congress of Biomechanics, 2015, Florianópolis. XVI Brazilian Congress of Biomechanics, 2015.

SILVA, J .; SILVA, F. E. C.; PEREIRA, J. T.. Analysis of different error estimators retrospectively applied to two-dimensional problems using H-Adaptive refining. In: XXII Day Jóvenes Researchers, 2014 Valparaiso. XXII Day of Jóvenes Researchers AUGM.

SKILLS

English:	Advanced Level.
AutoCAD and SolidWorks:	Intermediate Level.
Finite Element Method:	Advanced Level.
Computer Skills:	Office (Word, Excel and Power Point).