Saïd A. - Né le 08/02/1969 1004 Lausanne 3 ans d'expérience dont 1 à l'étranger

Réf: 801031137

Ingénieur en génie mécanique

Objectifs

- To secure a challenging and rewarding position within a solid, progressive company in a setting ýthat best utilizes acquired education and background.

Ma recherche

Je recherche tout type de contrat, dans toute la France, dans l'Ingénierie.

Formations

Master en génie mécanique

Expériences professionnelles

2007

Research Assistant at the Composite Construction Laboratory (CCLab), Ecole ýPolytechnique Fédérale de Lausanne. January 2007 up to now.ý Tasks:ý Physical and Mechanical characterization of structural and semi-structural adhesives for ýbridges:ý ý- Study of the physical properties, such as conversion, glass transition temperature, and kinetics ýof cure.ý ý- Study of the short-term (tension, compression shear, impact) and long-term (creep, fatigue) ýbehavior of these adhesives under elevated and low temperatures, humidity, and alkalinity, and ýother environmental actions.ý ý- Specification of reduction factors and safety factors according to classes of environmental ýexposure.ý ý- Choice of adhesive types, design models and recommendations for applications.ý

2004

Research associate at the CRASP (Centre de Recherche Appliquée sur les Polymères), ýÉcole Polytechnique de Montréal, 2004-2006.ý Realizations and tasks:ý ý- Collaborated with the CRASP team in the characterization and certification process of the ýnew low-cost Seawind aircraft composite material according to Transport Canada and FAA ýrecommendations.ý ý- Carried out experimental and numerical studies of the mechanical behavior of bonded ýcomposite joints for the Seawind FDC aircraft. All the tests were performed on a MTS servo-ýhydraulic machine model MTS 810. For the Finite Element Analysis ANSYS software was ýused.ý ý- Carried out a deep investigation of the reproducibility of the LPRI (Low Profile Resin ýInfusion) manufacturing process of the above cited composite material and the variability of its ýmechanical properties. A statistical analysis as recommended by the FAA was made in order to ýconfirm its applicability in the aeronautical industry. The mechanical tests were performed at ýroom temperature, cold temperature and elevated temperature. The influence of humidity at ýhigh temperature was also investigated.ý

Langues

- Arabe, Français, Anglais parlé: scolaire / écrit: notions

Atouts et compétences

Design, application, and characterization of adhesives, plastics, reinforced plastics and ýcomposite materials, design and stress Analysis of metallic and composite structural ýcomponents, finite element analysis with MSC PATRAN,

NASTRAN, and ANSYS, fatigue ýand damage tolerance in composite and metallic structures.ý (Expert)

Centres d'intérêts

- Football, lecture