Leonardo Galoso

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PROFESSIONAL EXPERIENCE

Engineer Intern, Iowa City, IA
SantosHuman Inc. **June 2019 - Present**

- Conducted tests and analysis with Santos software to determine ideal ergonomic conditions in a variety of use cases: military, office, manufacturing, et al
- Generated anthropometric simulations to determine seat index points for military cockpits and interiors
- Developer in C# working on backend software

Undergraduate Research Assistant, Champaign, IL
Human Factors & Aging Laboratory, University of Illinois at Urbana-Champaign **January 2019 - Present**

- Researcher in Human Robot Interaction
- Provide research support on various projects concerning human factors, ergonomics, and design
- Analyzed qualitative data using statistical analysis in R. Compiled information in over 30 categories

Product Development Engineer Intern, Muscatine, IA
The HON Company/HNI Corporation **August 2017 - August 2018**

- Facilitated in the expansion of the 10500 Series, drafting eight new worksurfaces in PTC Creo
- Conceptualized designs for an entry-level height-adjustable table, working with New Product Development to develop new adjusting mechanisms including pneumatic and electromechanical
- Provided design feedback on seating products and conducted reliability analysis on credenza locking components
- Created spreadsheets to depict part complexity in file cabinet lines, showing reduction and consolidation in hundreds of parts projected to save over $200,000 in yearly production costs
- Coordinated with marketing department to create new 3D line art for flagship modular storage models and Concinnity product line
- Assembled and updated double sided locking mechanisms and drawers for over 40 metal and laminate front credenzas in Creo; updated pre-existing drawings and bills of materials for production and manufacture

PROJECTS

ME-270: Design for Manufacturability Project
“Alexa Enabled Smart Lamp” **August 2019 - December 2019**

- Conceptualized a design for a smart lamp that integrates with devices via Amazon Alexa
- Conducted assembly time and consolidation analysis
- Generated detailed cost reports: manufacturing times, variable costs, piece part costs, fully burdened costs, etc.
- Created a 2k factorial design of experiment to test factors in wake-up ability
- 3D printed, manufactured, and assembled product
- Full manufacturing report can be viewed here: https://illinois.digication.com/leonardo-galoso/abet-learning-goals-2

Formula SAE Electric
“Carbon Fiber Wheel with Molded Grip” **August 2019 - December 2019**

- Assisted in the design of a carbon fiber wheel for use in SAE Formula Electric competitions
- Modeled designs in Solidworks and imported geometry from 3D scans
- Utilized finite element analysis (FEA) to determine push forces and optimize areas of reinforcement

EDUCATION

University of Illinois at Urbana-Champaign, Urbana-Champaign, IL **August 2018 - May 2022**
Bachelor of Science (B.S.), **Mechanical Sciences and Engineering**

- GPA - 3.34/4.0
  Relevant Coursework: ME-270: Design for Manufacturability, TAM-210: Statics, TAM-251: Strength of Materials, ME-200: Thermodynamics

SKILLS

CAD
PTC Creo, Windchill; Autodesk Inventor, Solidworks

Programming Languages
Java, R, Python, MATLAB, C#