juangras4@gmail.com

Juan Miguel Gras Olea

Mechanical Engineer

Skills

Web Development
- Django.
- JavaScript / jQuery / Three.js.
- HTML.
- CSS.
- Bootstrap.

Programming
- Python.
- VB.NET.
- C.
- Windows Forms.
- PostgreSQL/SQL Server.

CAD
- SolidWorks (Simulation, Assemblies and API knowledge).
- Inventor (Simulation, Assemblies and API programming).
- Fusion 360 (API programming).

Projects

- [Django] STL Gear Generator (Currently in development).
- [Python] GF Gear Generator.
- Designed and 3D printed a planetary gear transmission using SolidWorks.

Experience

Automation Engineer Jr.

Ruhrpumpen (January 2021 –Today)

Development of various desktop/CAD applications, calculators, designs for pumping related technology, and automated reporting programs.
- Developed the automated design program for the company´s vertical sump pump line.
- Made the back end, and contributed with the front end, programming for the ECN (Engineering Chance Notice) reporting program for the upper management global governance engineering team.
- Ran successful simulations to minimize the material used in pump´s baseplates for a project, effectively reducing its weight by 25%.
- Made an app, using VB.NET and Inventor, that automated the 3D modeling of sleeve couplings including its engineering drawing with tolerances and manufacturing notes.

Maintenance Engineer

INSEME (November 2018 – January 2021)

More than two years of experience in preventive maintenance and repair of industrial level electrical installations and equipment.
- Was in charge for Heinz's maintenance & thermography job orders.
- Successful installation of solar panels for Orgullo Azul's bottler in Tonaya, Jalisco.
- Lots of interactions with clients, tool handling, and teamwork.

Mechanical Designer

Ingenieros Mora (May 2018 – November 2018)

Modeling of mechanical components and engineering drawings (including tolerances) for the design of an armored cabin for a private security company at Guadalajara.

Education

- Mechanical Engineering at ITESO (graduated in 2020).
- Six sigma white belt (diploma pending).
- PLC Allen & Bradley programming course.