

LIDIA DYNES MARTINEZ

DESIGN ENGINEER

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PROFILE

I am a third year design engineering student looking for a six month placement for this coming year. I have a special interest in sustainable thinking, human factors and industrial design. I have 10+ months of experience working in an industrial company.

PORTFOLIO

For more information about projects please visit my online portfolio.
dynesdesigns.com

LANGUAGES

ENGLISH - Native

SPANISH - Fluent

MANDARIN - AS Level competence

REFERENCES

ADRIAN CURR

Senior Design Engineer
Renishaw

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DR. SHAYAN SHARIFI

Teaching Fellow
Imperial College London

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EDUCATION

MEng DESIGN ENGINEERING @ IMPERIAL COLLEGE LONDON October 2015 - Present

- First and second year average: 75% (First class)
- Part of the University's Dean's List which recognises students whose performance is above 70% and is within the top 10% of the year.
- Selected first year modules: Mechanics, Mathematics, Materials and Production, Communication in Design involving technical drawing, sketching and oral presentation skills.
- Selected second year modules: Advanced Mechanics, Electronics for Product and System Design, Computer Aided Engineering, Big Data.
- Selected third year modules: Industrial Design, Audio Experience Design, Robotics, Engineering Design Management and Rationale.
- Project topics include:
 - Sustainable product and system design of a personal care product
 - Medical spirometer for use in low-income settings
 - Mini ultra-mobile robot proposal for land mine detection
 - Electro-mechanical sound machine prototype
 - Tandem bicycle frame design using finite element analysis
 - Restaurant ordering database creation using python

CHELTENHAM LADIES' COLLEGE October 2007 - June 2014

- A Levels | Maths, Further Maths, Chemistry, Physics (A*AAA)
- AS Level | Mandarin (B), 12 GCSEs grade A*
- Music Scholar award | Grade 8 Distinction in Piano, Voice and Saxophone

ENGINEERING EXPERIENCE

SUMMER INTERNSHIP @ RENISHAW June 2017 - August 2017 (2 Months)

- Developed tools to accelerate the production and assembly of current products by building an SQL database lookup using Excel macros.
- Provided support implementing strategic access to data by creating company reports online using Visual Studio Reporting Services.
- Assisted in improving product quality by reducing the chance of human error during the assembly process; this was achieved by updating work instructions and assembly tool interfaces to clarify procedures and ensure correct completion of tasks before being allowed to move on.

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SKILLS

ENGINEERING

Solidworks ●●●●●

FEA ●●●●●

CES Edupak ●●●●●

ADOBE SUITE

InDesign ●●●●●

Adobe Muse ●●●●●

Photoshop ●●●●●

Illustrator ●●●●●

MANUFACTURING

Laser Cutting ●●●●●

3D Printing ●●●●●

PROJECT MANAGEMENT

Public Speaking ●●●●●

Teamcenter ●●●●●

COMPUTING

Python ●●●●●

Matlab ●●●●●

SUMMER INTERNSHIP @ RENISHAW

June 2016 - August 2016 (2 Months)

- Designed the outer body of a co-ordinate measuring machine which is presently being sold to large corporations in the automotive industry.
- Facilitated the construction of a future product offering prototype and manufactured bespoke parts for the machine as well as conceptualising ways of improving the current prototype for future exploration.

SUMMER INTERNSHIP @ RENISHAW

June 2013 - August 2015 (Three placements lasting 2 months each)

- Tested magnet strength on the neuromate stereotactic robot to ensure the safety of patients during the course of brain surgery; the test rigs were developed on Siemens NX and 3D printed.
- Examined and enforced the completion of engineering drawings and ROSHH compliance; this involved chairing meetings with senior members of staff and contacting engineers throughout the company.

PAST EXPERIENCE AND VOLUNTEERING

APP INTERFACE DESIGN FOR HYDROTECHNIK UK LIMITED

November 2017

- Redesigned the interface for an app that provides an overview of the condition of oil used in mechanical rigs. By clarifying the data format, clients will be able to more easily monitor the oil's condition and reduce the time for training new technicians, reducing cost.

MARKETING PREFECT @ CHELTENHAM LADIES' COLLEGE

October 2013 - June 2014

- Collaborated in the re-branding of my secondary school's public image; this included collecting feedback from the public in order to re-design the logo, website and uniform.

WORK EXPERIENCE @ MESSIER-BUGATTI-DOWTY

June 2012

- Worked in the Test Department and saw how the company conducted strength and fatigue testing on aircraft landing gear while also learning to solder and attach strain gauges onto aircraft.

INTERESTS



Music



Travelling



Drawing