

PABLO AGUSTÍN LOBO

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PERSONAL DETAILS

- **DNI:** 38069162.
- **Date of birth:** 17/02/1994.
- **Place of birth:** CABA, Argentina.
- **Nationality:** Argentine.
- **Citizenship/Passport:** Argentine, Spanish.
- **Marital Status:** Single.

EDUCATION

Instituto Tecnológico de Buenos Aires
BSc & MSc in Mechanical Engineering

2013 - 2020
Buenos Aires, Argentina

WORK EXPERIENCE

Manufacturing Company
Engineering Co-op Student

August 2016 - December 2016
City Three, UP

- Created Excel utilities with VBA that massively stream-lined SAP processes, saving Project Managers 10 hours every week. These include:
 - Creating a GUI for quickly retrieving any information about SAP materials in Excel all at once
 - Writing a script to pull 100s of drawings during the year end inventory rush
- Developed Python GUI database app with SQLite to reduce time searching for SAP materials by 50%

Logistics Company
Data Analyst Intern

December 2015 - May 2016
City One, UP

- Revolutionized the position by using Python & regular expressions to consolidate all data in one place
- Created several Python scripts and VBA macros to automate tasks saving at-least 15 minutes each day.
- Improved hiring practices by analyzing compiled data to demonstrate the low retention rates associated with hiring through labour agencies
- Utilized Excel pivot tables to summarize, categorize, and present data allowing the owner to make informed decisions about company operations

PROJECTS

Strength Journal Mobile App

June 2017

- Published Android app that allows users to log workout stats with minimal hassle
- Applied test-driven development when implementing features to ensure quality of product

School Newspaper Website
Contributer

May 2017

- Constructed unit tests for REST API that increased coverage by 5%
- Implemented REST API endpoints for the User model

C++ Blob Combat Simulation

May 2017

- Developed a simulation where "blobs" evolve to fight using genetic algorithms like proportional and tournament selection
- Applied linear algebra concepts to efficiently implement a Neural Network and collision detection
- Built the simulation independent of real elapsed time enabling "fast forward" feature to significantly reduce training time

Design Project - Water Jet Propelled Vehicle

April 2015 - May 2015

- Developed MATLAB time marching simulation which optimized water to air ratio and predicted the vehicle speed to within 12%
- Programmed Arduino micro-controller to control steering and valve servos using RF transmitter/receiver