

# PABLO AGUSTÍN LOBO

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## EDUCATION

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**University of Unknown Province**  
*B.ASc in Mechanical Engineering*

September 2013 - Present  
*City One, UP*

## WORK EXPERIENCE

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**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

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**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