

Developer (Python, Excel) Developer (Python, Excel) Mechanical Engineer, Software Developer
San Francisco Bay Area, CA I m a recently graduated Mechanical Engineer with a passion for
Mechatronics, programming, and software development. My concentration in Mechatronics has
given me ample experience in concurrent engineering through diverse projects. I ve learned how to
approach problems from many perspectives to find the best solution. I ve relentlessly scoured
software libraries in an effort to arrive at final product that was not only functional, but polished,
responsive, and robust. This drive has led me to individually study software development, learning
many tools along the way. I m looking to expand and challenge my skills as an engineer with a
workplace and projects I ll love. Authorized to work in the US for any employer Work Experience
Developer (Python, Excel) Ingredient List Sort/Translate Script June 2016 to Present in progress
Designed Python script utilizing openpyxl, python-docx to automate food ingredients list translation
to various languages Retrieves data from Excel and outputs to Word in specified language and
format, removing need for human translator Developer (Django, Python, JavaScript) I'm Silent
Photography May 2017 to July 2017 - Conceived small-scale photography website for use by a
single client to showcase photography/graphic design portfolio - Designed front-end with Bootstrap,
jQuery, using responsive web design to operate fluidly on all platforms - Using Django MVT,
handles and serves media uploads based on category and sorting fields, forgoing pre-built CMS
Software Lead Engineering Pathway Project - San Jose, CA August 2016 to May 2017 -
Collaborated with IHS Automotive Technology dept. to develop curriculum encouraging higher
education in STEM - Developed VB script to retrieve and visualize power/torque data from power
dynamometer in Excel - Repaired power dynamometer and calibrated software, resulting in
permanent lab fixture and teaching aid for Auto Tech dept. Software Lead Mechatronic Stabilization
of MinSeg Robot August 2016 to December 2016 - Derived physical system model from previous
engineering design knowledge to quantify system properties - Utilized knowledge of Simulink to
accurately translate physical system into discretized control system feedback loop - Developed
MATLAB scripts to quantify feedback from on-board sensors and return robust stabilization
procedure - Resulted in a robot that dynamically maintained an upright position amidst disturbing

forces, fulfilling project goal Developer (C#, Unity3D, Adobe CC) Bagel Defender April 2016 to May 2016 - Designed small top-down retro shooter utilizing Unity3D's component-based C# and test-driven development principles - Extensive use of asynchronous C#, coroutines, delegates, resulting in robust and fluid runtime Software Lead Development of Automatic Bicycle Shifting System - San Jose, CA August 2015 to December 2015 - Built fully mechatronic servo-driven derailleur system to shift bicycle gearing based on rider cadence/speed - Designed and implemented Arduino program to obtain feedback and operate dynamically amidst environmental conditions - Resulted in the first successful prototype of its kind within department, succeeding multiple attempts at similar concept Education B.S. in Mechanical Engineering San Jose State University - San Jose, CA August 2012 to May 2017 Skills HTML (5 years), CSS (2 years), Javascript (1 year), JQuery (Less than 1 year), Python (2 years), Django (1 year), SQL (Less than 1 year), C# (2 years), Java (2 years), Matlab (5 years), Solidworks (4 years), Excel (10+ years), Adobe (4 years), CAD (4 years), Solidworks (3 years), Creo (3 years), Labview (2 years) Links <https://www.linkedin.com/in/reubenreyes> <http://radotreyes.github.io> Groups Bridge Engineering Student Transition March 2015 to May 2017 Founded a mentoring program designed to help underclassman engineers succeed Organized structure of program and gained recognition of faculty within College of Engineering Trained upperclassman mentors in small group interactions and communication with younger students

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