Ian Sebastian Rios-Sialer

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EDUCATION

University of Michigan, Ann Arbor **September 2013 – April 2017**

Bachelor of Science in Engineering (B.S.E), Mechanical Engineering GPA: 3.5 / 4.0

EXPERIENCE

Consultant - Student Intern **January 2017 – Present**

Civil Maps

• Used Artificial Intelligence to convert sensor data into map and location information for Autonomous vehicle applications

• Performed testing at Mcity in different weather conditions to form dataset with multi-sensor (LiDAR + camera) data

• Collaborated with TechLab to assess business strategy of Civil Maps and optimize project management

Multidisciplinary Design Project Intern **January 2016 – December 2016**

General Motors

• Designed, produced and deployed an end-to-end, scalable and integrated solution for testing, and empirical modeling

• Optimized Design of Experiments (DOE) for Subcomponent Testing, Resource Allocation, and Operations

• Created algorithms and methods for Feature Selection, Model Selection, Bad Data Treatment, Test Matrix Reduction that were automated in software

• Conducted Project Management, Stakeholder Management, Contingency Planning, Risk assessment, Scope definition, and Strategic Planing

Assistant in Research **April 2016 – December 2016**

Ford New Generation Vehicle – U of M – Autonomous Vehicle Project

• Trained Deep Neural Networks on Simulation and real world data (KITTI, Imagenet, etc)

• Studied implementations of Deep Reinforcement Learning Networks for Motion Planning and Control

• Implemented Computer Vision Architectures (ResNet, AlexNet, R-CNN) and Libraries (Caffe, Torch, Theano, Mxnet, Tensorflow)

Undergraduate Researcher **April 2016 – December 2016**

Aerospace Engineering Department – University of Michigan College of Engineering

• Designed Enemy-Detection Algorithm for Distributed Multiple Agent Feedback Control Systems

• Implemented and tested Gaussian Mixture Model Regression, and LTSM-RNN for trajectory prediction in MATLAB and PYTHON

Energy Consultant **February 2015 - December 2016**

Industrial Assessment Center - (US Department of Energy)

• Provided comprehensive energy, productivity, and waste assessments to small and medium sized US manufacturers

• Wrote technical reports of recommendations from the assessment that led to reduced energy costs in companies and saving of over $ 20k+ annually

SKILLS

• PYTHON • MATLAB & SIMULINK • C++ • AWS / AZURE • TENSORFLOW+KERAS / MXNET / TORCH

• MICROSOFT OFFICE •ASANA + SLACK •LATEX • PRODUCT DEVELOPMENT + CUSTOMER RESEARCH

• PRODUCT MANAGEMENT • PROJECT MANAGEMENT • BUSINESS STRATEGY