ALEX TACESCU

(559) 301-6222 | alextac98@gmail.com | www.alextac.com

TECHNICAL SKILLS

Robotics: Software Development, Mechanical Design, Electrical Design, Agile Project Management (SCRUM)
3D CAD: Design and Simulation in Autodesk Inventor [7 years], Dassault SolidWorks [5 years], and PTC Creo Parametric (ProE) [1 year]
Programming: ROS (C++ & Python), Android (Java), Pipelines (in Unix/ Linux) and Git
Microprocessor & Single-Board Computers: Raspberry Pi, BeagleBone Black/Blue, NVIDIA TX1/2,ESP32 & ESP8266, Device Trees in Linux
Other Software Experience: Linux (Debian/Ubuntu), MathCAD and MATLAB, Adobe Creative Suite(Photoshop & Premiere), Excel Macros Programming

EXPERIENCE

References Available upon Request

Integration Engineering Intern

Tesla

Summer 2018 — Palo Alto, CA

- Responsible for troubleshooting battery thermal system issues and developing test stands for Model S/X, Model 3, Semi-Truck, and other products
- Developed software components for testing, collecting data over CAN networks
- Discovered and fixed 3 issues in critical systems such as the battery and powertrain thermal system and the high voltage system
- Identified a problem and implemented a change in 2 assembly cells that increased Model 3 end-of-line production by 45

Student Assistant

Worcester Polytechnic Institute

Aug 2018 – Current — Worcester, MA

- Student Teaching Assistant for WPI's Junior year Robotics classes (RBE 3001 & 3002) focusing on robotic manipulation, dynamics, machine vision, path-planning, and other advanced concepts

QUALIFICATION SUMMARY

Robotics engineering student with significant experience in 3D CAD design and extensive knowledge of multiple programming languages in multidisciplinary applications

EDUCATION

M.S. in Computer Science

Worcester Polytechnic Institute

Graduation: May 2020 — GPA: 4.0

AWARDS

2018

- Dean's List at WPI (Spring 2018)
- Rho Beta Epsilon Robotics Engineering Honor Society Member

2017

- Dean's List at WPI (Fall 2017)
- 1st Place at HealthHacksRI at the University of Rhode Island for Project Drogo
- NASA Space Robotics Challenge Team Finalist

2016

- 2nd Place at the Intel International Science and Engineering Fair (ISEF) in the category of Applied Mechanics
- Google International Science Fair Regional Finalist
- International Council on Systems Engineering First Award for "best interdisciplinary project that can produce technologically appropriate solution that meet societal needs" at the ISEF

PROJECTS

- GE Fallonventions Award and participation on NBC's Tonight Show starring Jimmy Fallon (aired on April 11, 2016)
- Sweepstakes Award winner (1st place overall) and 1st place in Engineering at the Central California Science, Math, and Engineering Fair
- National Honor Society Inductee and California Scholarship Federation Member

2015

- Institute of Electrical and Electronics Engineers President's Scholarship Award at Intel Science and Engineering Fair for "an outstanding project demonstrating an understanding of electrical engineering, electronics engineering, and computer science."
- 1st place in the category of Applied Mechanics and Structures at the California State Science Fair
- Sweepstakes Award winner (1st place overall) and 1st place in Engineering at the Central California Science, Math, and Engineering Fair