

# ALEX TACESCU

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🌐 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

## 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

## 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

- 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

## PROJECTS

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