DANA S. NATOV

EDUCATION

CSU Sacramento 2013-2017

- Bachelors of Science, Electrical and Electronic Engineering
  Academic Interests: Analog/Digital Control Systems, Robotics
- Sac State GPA: 3.525

WORK EXPERIENCE

Gold Standard Diagnostics – Manufacturing/Validation Intern 2012-2017

Responsible for assembly and sub-assembly build processes. Trained in soldering, programming and troubleshooting of multiple assemblies and sub-assemblies and of the final products. Trained in operation, documentation and testing procedure of medical diagnostic robotic systems.

Gold Standard Diagnostics – Software Test Engineer 2017-2019

Responsible for software/hardware QA on multiple robotic medical diagnostic platforms. Performed System Integration Tests, Automation Testing, Software Testing and Unit Testing using NUnit. Utilized programs/languages including C#,Oxygene, Testrail, Manuscript, TortoiseHG Python and Autoit.

Gold Standard Diagnostics – Software Engineer 2019-Present

Responsible for software engineering and design that controls and operates medical diagnostic robotic platforms. Programming using C#, Oxygene, .NET and Powershell. Additionally provide hardware testing programs for prolonged bench level testing.

PROJECT EXPERIENCE

FRC team 1678: Citrus Circuits 2012-2015

- Student from 2012-2013, Mentor from 2013-2015
- 2015 Season World Champions

Senior Design Project

- One year design project requiring first semester prototype and second semester deployable prototype. Automated in-home medication dispenser with a custom cartridge design allowing automatic uploading of medication schedules.

SKILLS

- Experience in embedded programming of 8-bit Atmel microcontrollers and 32-bit ARM STM microcontrollers
- PLC Programming experience with Allen Bradley PLC simulator using RSLogix 500
- Focus in Control Systems with proficiency in PID analysis and implementation
- Ability to maintain and troubleshoot DC motors and motor drivers
- Understanding of AC/DC circuitry, network analysis, BJT and MOSFET applications
- Computer vision programming experience with Python and OpenCV
- Proficient in C, C++, Python, HTML, CSS and Matlab
- Proficient in 3D Modeling/Printing and rapid prototyping using SolidWorks

PROFESSIONAL ORGANIZATIONS

- Tau Beta Pi Engineering Honor Society Member 2016-Present