

# DANA S. NATOV

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## EDUCATION

CSU Sacramento

2013-2017

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

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## WORK EXPERIENCE

Gold Standard Diagnostics – Manufacturing Intern

2012-Present

Responsible for assembly and sub-assembly build processes. Includes closed loop stepper motors assemblies, CLIA/ELISA hardware, assembly frames, mechanical rails and cabling. Familiar with strict regulations regarding GMP, CFR, FDA/ISO auditing, quality and manufacturing. Trained in soldering, programming and troubleshooting of multiple assemblies and sub-assemblies and of the final products.

Gold Standard Diagnostics –Validation Intern

2017-Present

Trained in operation, documentation and testing procedure of medical diagnostic robotic systems. Validation of CLIA systems, system maintenance, troubleshooting and performance verification.

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## 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.

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## SKILLS

- Experience in embedded programming of 8-bit Atmel microcontrollers
- Understanding of robotic systems and sensor applications
- Exceptional soldering and rework skills
- Proficient in 3D Modeling, rapid prototyping using SolidWorks and additive manufacturing
- Focus in Control Systems with proficiency in PID analysis and implementation
- Proficient in C, C++, Python, HTML, CSS and Matlab
- Understanding of x86 assembly
- Computer vision programming experience with Python and OpenCV
- Understanding of AC/DC circuitry, network analysis, BJT and MOSFET applications
- Maintain, troubleshoot and upgrade electro-mechanical systems
- Ability to troubleshoot, maintain and upgrade DC motors/motor controllers
- Experience in machining, modeling, CAD and mechanical systems

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## PROFESSIONAL ORGANIZATIONS

- IEEE Member 2015-Present
- Tau Beta Pi Engineering Honor Society Member 2016-Present