

# SHANE LI

## CURRENT ADDRESS

400 MCCUTCHEON DRIVE  
ROOM 157, Box 1400  
WEST LAFAYETTE, IN 47907

U.S. RESIDENT  
(408) 768-4974  
LI2137@PURDUE.EDU

## PERMANENT ADDRESS

4521 ELMHURST DRIVE  
SAN JOSE, CA 95129  
ATTN: SHANE LI

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## EDUCATION

PURDUE UNIVERSITY, WEST LAFAYETTE, IN  
BACHELOR OF SCIENCE IN COMPUTER SCIENCE

EXPECTED MAY  
2019

## EXPERIENCE

### PROSPECT HIGH SCHOOL ROBOTICS TEAM

2012 – 2015

#### PRESIDENT (2014 – 2015)

- MANAGED DIFFERENT SUB-TEAMS WITHIN THE ORGANIZATION
- PRESENTED PRESENTATIONS AT NUMEROUS CORPORATE SPONSORS
- DELEGATED WORK TO OTHER OFFICERS TO MAXIMIZE EFFICIENCY
- WORKED WITH FINANCIAL TEAM TO DRAFT BUSINESS AND GRANT PROPOSALS
- ORGANIZED TEAM TRIPS TO OUT-OF-STATE AND IN-STATE COMPETITIONS
- FUNDRAISED OVER 30,000 DOLLARS DURING TIME AS PRESIDENT

#### VICE PRESIDENT (2013 – 2015)

- OVERSAW PRODUCTION OF COMPETITION/PRACTICE ROBOTS
- MANAGED TEAM LEADERS FOR EACH SUBSYSTEM
- CREATED COURSES TO TRAIN MEMBERS OF TEAM IN DIFFERENT FIELDS INCLUDING MACHINING, SOFTWARE AND MARKETING
- COORDINATED WITH PARENTS TO BRING REAL WORLD EXPERIENCE INTO TEAM

#### SOFTWARE LEAD (2012 – 2015)

- MANAGED THE DEVELOPMENT OF SOFTWARE FOR VARIOUS PROJECTS
- DEVELOPED FIELD CENTRIC DRIVER CONTROL FOR MECANUM DRIVE
- INTEGRATED PID CONTROL IN VARIOUS SUBSYSTEMS OF ROBOT
- PRODUCED CODE FOR AUTONOMOUS DRIVING OF ROBOT
- INTEGRATED GYROS, ENCODERS, POTENTIOMETERS, HALL EFFECT SENSORS TO WORK TOGETHER IN ORDER TO ACHIEVE SMOOTH OPERATION OF ROBOT

## PROJECTS

### AUTOMATIC DOOR LOCK (DESIGN STAGE)

2015 – PRESENT

- MOTORIZED MECHANISM TO AUTOMATICALLY UNLOCK/LOCK DOOR LOCK OF MCCUTCHEON HALL DORM ROOMS AT PURDUE UNIVERSITY
- USES RFID/NFC INSTEAD OF TRADITIONAL KEY
- CONTROLLED THROUGH ARDUINO AND POWERED BY LIGHT BULB CELLS

### “CODE RED” DOOR JAMMER (DESIGN AND MASS PRODUCTION COMPLETE, IN USE)

2015

- OVERSAW DESIGN AND PRODUCTION OF MECHANISM TO PREVENT SHOOTERS FROM ENTERING CLASSROOMS AT PROSPECT HIGH SCHOOL IN SARATOGA, CA
- COMPACT DEVICE WITH QUICK AND EASY DEPLOYMENT ON DOOR HANDLE
- MADE FROM STEEL, ABLE TO WITHSTAND UP TO 3600 LBS OF FORCE

## SKILLS

### PROGRAMMING

- JAVA (PROFICIENT), JAVASCRIPT (BEGINNER), ECLIPSE, INTELLIJ, NETBEANS

### SOFTWARE

- SONY VEGAS (ADVANCED), SOLIDWORKS (PROFICIENT), PHOTOSHOP (PROFICIENT), MICROSOFT WORD/POWERPOINT (PROFICIENT), EXCEL (INTERMEDIATE), MESHCAM/VECTRIC 2D (PROFICIENT), ADOBE ILLUSTRATOR/AFTER EFFECTS (INTERMEDIATE),
- ABILITY TO QUICKLY LEARN NEW SOFTWARE

### MECHANICAL

- METAL LATHE (EXPERT), PNEUMATIC SYSTEMS (EXPERT), CNC MILLING MACHINE (PROFICIENT), MILLING MACHINE (PROFICIENT), SOLDERING (INTERMEDIATE), PCB DESIGN (BEGINNER)

**SHANE LI**