Arthur Pachachura

Email: pachachura.arthur@gmail.com Website: http://smo-key.github.io GitHub: https://github.com/smo-key

EDUCATION		
2008 - 2012	Kealing Middle School – Magnet Program	Austin, Texas
2012 – present	Liberal Arts and Science Academy	Austin, Texas
ACTIVITIES		
2009 – present	Boy Scouts of America – Troop 448	3 hrs/week
	Chaplain's Aide (2010-2011)	20 weeks/year
	 Offered prayer during scouting events and religious services 	
	Instructor (2011-present)	
	 Advanced other scouts to higher ranks 	
	 Taught merit badges to large and small groups, including the Robotics merit badge 	
2011 - 2013	Mathnasium Chess Club	3 hrs/week
	Active Participant	20 weeks/year
	 Participated in local and online tournaments and briefed younger students on chess strategy and skill 	
2012 – present	Bethany Lutheran Church	2 hrs/week
	Acolyte	6 weeks/year
	 Participated in religious service and provided aid to the pastors 	
2012 - 2013	LASA Orchestra	4 hrs/week
	Philharmonic Orchestra, First Violin	20 weeks/year
	 Played at every concert and supported other instrument players 	
2012 – present	LASA Robotics	12 hrs/week
	Team Lead (2012-2013, elected)	40 weeks/year
	 Organized the team into cooperative sub-teams for build, programming, driving, and electronics Worked with sub-team leads to build and maintain an effective team strategy Participated in the build of the robots 	

Programming Team Lead (2013-present, elected)

- Created an effective sub-team strategy for building and deploying code on remote systems
- Used Gantt charts and timetables to organize team programming duties
- Implemented team code version control via Git

Website Manager (2013-present)

- Wrote and uploaded content for the robotics website
- Maintained file sharing and version control

2013 – present

FIRST Robotics

Volunteer

36 hrs/week 1 week/year

 Volunteer yearly at the FIRST World Championship, plan to volunteer for more events in the near future

Robot Inspector

- A position no freshman has received before
- Inspected and evaluated incoming teams' robots

Field Control System Operator

- A position no freshman has received before
- Ran a match field, recorded specific observations about field problems, diagnosed router inefficiencies and disconnections, and provided technical aid to other robotics teams

HONORS & AWARDS

2012	BSA Polar Bear Camping Award	
2012	BSA UT Merit Badge University	
2012	BSA National Youth Leadership Training	
2012	BSA Lost Pines Summer Camp	
2013	Full Orchestra UIL First Place	
2013	BSA Life Scout	
2013	FIRST World Championship First Year Volunteer	
2013	FIRST World Championship Star Volunteer Pin	
2014	FIRST Robotics FTC Inspire Award	
2014	FIRST Robotics FTC Think Award	
2014	FIRST Robotics FRC Engineering Inspiration Award	

SKILLS, TALENTS & ACHIEVEMENTS

Programming and Electrical Engineering

- Fluent in C, C++, C#, and Visual Basic
- Built artificial intelligence for several classic board games
- Built custom Linux operating system and deployed on home computers and Raspberry Pi
- Building mathematical 3D graphics engine
- Built operating system for a TI-84 using Z80 Assembly and TI-BASIC
- Building Raspberry Pi home theater and server system
- Thorough knowledge of Notepad, LaTeX, and Visual Studio

Engineering Drafting and Design

- Wrote 40-page Final Design Report (FDR) for 9th grade engineering class
- Solve engineering problems on a regular basis
- Contribute to annual LASA Robotics Drop Dead Design Day (D4)
- Knowledge of CAD software SolidWorks and general design principles

Leadership

- Boy Scouts of America Life Scout with National Youth Leadership Training
- Lead robotics teams and teach Scouts programming and engineering principles
- Lead and manage teams large and small on a regular basis