

# Arthur Pachachura

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Website: [arthurpachachura.com](http://arthurpachachura.com)

Austin, Texas

## EDUCATION

2008 – 2012

**Kealing Middle School – Magnet Program**

Austin, Texas

2012 – present

**Liberal Arts and Science Academy**

Austin, Texas

## EXPERIENCE

Summer 2014

**UT Center for Space Research Intern**

28 hrs/week

*Intern, Data Analysis and Research for follow-on  
GRACE Mission*

4 weeks

Project Website: [code.arthurpachachura.com/grace](http://code.arthurpachachura.com/grace)

Open source at [github.com/smo-key/grace](https://github.com/smo-key/grace)

## ACTIVITIES

2009 – present

**Boy Scouts of America – Troop 448**

3 hrs/week

*Instructor (2011-present)*

20 weeks/year

- Advanced other scouts to higher ranks
- Taught merit badges to large and small groups, including the Robotics merit badge

2012 – present

**LASA Robotics**

12 hrs/week

*Affiliated with FIRST Robotics FTC and FRC ([usfirst.org](http://usfirst.org))*

Website: [lasarobotics.org](http://lasarobotics.org)

40 weeks/year

*FTC Team Lead (2012 – 2013, elected)*

- 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

*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

*Communications Manager (2014 – present, elected)*

- Monitored and established LASA Robotics and FIRST media presence
- Promoted LASA Robotics in target communities
- Lead the development of the LASA Robotics website

2013 – present

### **FIRST Robotics Volunteer Program**

75 hrs/week

#### *Volunteer*

1 week/year

- Volunteer yearly at the *FIRST* World Championship in St. Louis, plan to volunteer for more events in the near future
- Currently a 2-Year Volunteer

#### *Software Inspector*

- Inspect and evaluate teams' robots in accordance to *FIRST* guidelines
- Assist *FIRST* Robotics teams with software problems and inefficiencies

#### *Field Control System Operator*

- Run a match field, record specific observations about field problems, diagnose router inefficiencies and disconnections, and provide technical aid to other robotics teams

### **PAST ACTIVITIES**

2011 – 2013

**Mathnasium Chess Club**

2012 – 2013

**LASA Orchestra**

### **HONORS & AWARDS**

2012

**BSA National Youth Leadership Training**

2013

**Full Orchestra UIL First Place**

2013

**BSA Life Scout**

2013

**FIRST World Championship 2013 Star Volunteer**

2014

**FIRST Robotics FTC Inspire Award**

2014

**FIRST Robotics FTC Think Award**

2014

**FIRST Robotics FRC Engineering Inspiration Award**

2014

**National Honors Society**

2014

**FIRST World Championship 2014 Star Volunteer**

2014

**School's Out Hackathon - Google's Engineers' Award**

*Android App: GoGreen*

Android app landing page: [arthurpachachura.com/sohacks](http://arthurpachachura.com/sohacks)

Open source at [github.com/smo-key/sohacks](https://github.com/smo-key/sohacks)

## **SKILLS, TALENTS & ACHIEVEMENTS**

### **Computer Science and Electrical Engineering**

- Fluent in C, C++, C#, Visual Basic, and Assembly
- Build major collaborative codebases including private and open-source
- Fanatically automate and document my coding life
- Take interest in artificial intelligence, low-level (Assembly) coding, and building simple machines to achieve complex goals

### **User Experience and Mobile Design**

- Fluent in HTML5, CSS, and JavaScript
- Build responsive, elegant, and engaging systems for Android and Web
- Pursue quality designs and a lasting experience

### **Leadership**

- Passionate about successful project design
- Boy Scouts of America Life Scout with National Youth Leadership Training
- Lead robotics teams and teach Scouts programming and engineering principles
- Love to lead and love to learn