

Arthur Pachachura

Email: pachachura.arthur@gmail.com

Website: 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

Open source at 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)

Website: 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)

- Promoted LASA Robotics in target communities

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 Polar Bear Camping Award

2012

BSA National Youth Leadership Training

2013

Full Orchestra UIL First Place

2013

BSA Life Scout

2013

FIRST World Championship First Year Volunteer

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

Open source at 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