

Parker Mayer

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Education

- **Central Washington University** **Fall 2019 - Spring 2020, Fall 2021 - Spring 2022**
Ellensburg, WA GPA: 4.0
Majors: Electronics Engineering Technology, Mathematics
 - **Central Washington University, Running Start** **Fall 2017 - Spring 2019**
Ellensburg, WA GPA: 4.0
 - **Thorp Schools (Part-time), Homeschooled (Part-time)** **Fall 2014 - Spring 2017**
Thorp, WA GPA: 3.94
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Experience

- **Nerdy Girls, Co-founder** **January 2017 - Present**
Launched Nerdy Girls, a Washington based non-profit, in January 2017. Nerdy Girls was born out of concern for the fact that few girls participate in high school robotics, and even fewer hold technical roles on these teams. Nerdy Girls is working to create the ultimate path for girls into the world of competitive robotics and ultimately into technical careers. Nerdy Girls has hosted almost 100 Friday night meetups for teen girls where they can battle their way through a systematic progression of robot builds and programming languages. More information can be found at nerdygirlsproject.org.
- **Spicy Meatbots Robotics Kit, Co-inventor** **May 2019 - Present**
Prototyped and developed a new robotics system for at-home middle and high schoolers. Assembled an inexpensive electrical system that allows users to control medium current-drawing motors with an Arduino Mega 2560 board without paying for expensive motor drivers. Consists solely of products that can be ordered online: terminal blocks, Pololu motor drivers, and off-the-shelf DC/DC voltage converters. Paired this system with the Actobotics mechanical system to create a new robotics kit called Spicy Meatbots. This system is designed to be open source in nature and attempts to provide an inexpensive alternative to the costly, proprietary robotics kits that dominate the market. More information can be found [here](#).
- **The Robot Underground, Co-founder** **March 2020 - Present**
Currently building The Robot Underground to be the world's most comprehensive robotics curriculum for middle and high school students. Expanding on the Nerdy Girls curriculum, The Robot Underground will be the first of its kind: a completely free and open source YouTube-based curriculum geared toward students everywhere who want to

break into robotics from home. Currently in the process of prototyping, scripting, producing, and editing the over 220 tutorials that comprise the curriculum. Learn more at robotunderground.party.

- **FIRST Robotics** **January 2015 - January 2020**
 - **FIRST Robotics Competition (FRC) League**
Participated for four years on the local FRC team out of Thorp Schools, #4495-Team Haywire. Held Lead Programmer and Team Captain positions.
 - **FIRST Tech Challenge (FTC) League**
Created two all-girl teams that advanced to the State championship in two out of their three seasons.

 - **Camino de Santiago Pilgrimage** **Aug 2016 - Sept 2016**
Walked 300 miles of ancient pilgrimage in northern Spain while studying the Spanish language and regional history.
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Honors, Awards, & Media Coverage

See parker-mayer.com for links to videos and articles.

- **Castner Opportunity Scholar** **2019 - 2020**
One of six Washington State Opportunity Scholarship recipients awarded this designation.

- **U.S. Senator Patty Murray** **August 2019**
Met personally with Senator Murray to tour the Nerdy Girls headquarters and discuss its mission.

- **U.S. Congresswoman Kim Schrier** **July 2019**
Met personally with Congresswoman Schrier to tour the Nerdy Girls headquarters and discuss its mission.

- **Article by Dorothy Edwards, Crosscut** **May 2019**
Nerdy Girls was featured in an article published by Crosscut, a Seattle-based media organization (part of Cascade Public Media).

- **Seahawks Legion of Youth Powered by Boeing Recipient** **August 2018**
Nerdy Girls was selected to be a recipient of the Legion of Youth Powered by Boeing award. Collaborated with Seahawks media crew to make a video featuring a Nerdy Girls robot interacting with Seahawks players. Had the opportunity to take 25 Kittitas County youth and their families to a Seahawks game.

- **FIRST Washington Change the World Video** **June 2018**
Provided interview for fundraising video in which Nerdy Girls was featured for FIRST Washington robotics league.
 - **Nerdy Girls Documentary** **May 2018**
Selected to be subject of short documentary produced by local filmmaker for Seattle International Film Festival. Documentary was also shown at Ellensburg Film Festival in October 2018.
 - **The Kurt Giessler Foundation Prize for Achievement** **April 2018**
Awarded \$2000 prize for work in forging path for teen girls in the area of robotics. Prize funds were used to acquire laptops for Nerdy Girls members.
 - **Suncadia Fund for Community Enhancement Grant** **April 2017**
Awarded \$5000 grant to expand Nerdy Girls program to include a more complex robotics system.
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Skills

- **Programming and Scripting Languages, Web Development Tools, & CAD Software**
Python, Java, C++, C#, C, JavaScript, PHP, HTML, CSS, Autodesk Fusion 360
- **Creative & Business Software**
Adobe Premiere Pro, After Effects, XD, Photoshop, Illustrator, Microsoft Office Suite, G Suite