Ben Stirling's Resume

Ben Stirling

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Mission Statement

I am a high school senior who is passionate about helping others through providing excellent service or by creating great products.

Education

School: Currently taking classes at Palomar College, planning to **transfer to a UC** school next fall.

High School GPA: 4.15

Goals: Aiming to major in **computer engineering** with a minor in mathematics.

Experience

Robotics:

2010-2015: Became proficient in Lego Mindstorms NXT and EV3 by creating robots. Created and programmed dozens of custom battle bots, 3-axis arms, and complex mechanisms.

2016-2017: Developed countless scripts and robots using a raspberry pi and Arduino hardware. Gathered skills in **C and Python**.

2017: Co-founded a community robotics team, FRC 6995 NOMAD, and since then the team has quadrupled in size and currently has over 20 members.

2018: Served as the safety captain and worked with the mechanical team, and NOMAD won an award for being the highest ranked rookie team at that year's San Diego Regional.

2019: Elected to be the mechanical team lead. This season NOMAD won the 2019 San Diego Regional, won the Qualcomm Innovation award, and competed at the world championships in Houston.

2020: Elected to be the highest role on the team, the **president and team captain**. In addition, headed the **design team**.

2021: Remains the team captain and design lead, focusing on the redesign that will allow the robot to remain competitive at the next year's regional.

Gained experience with basic mechanical and electrical construction. In addition, plenty of experience with machining, especially with multiple types of 3D printing. Most skilled with design and CAD, with over 2 years of experience with Autodesk Inventor and most recently OnShape for the past few months. Currently improving development skills while working on some autonomous and vision projects with the software team.

Leadership:

Served as the safety captain and mechanical lead. Currently serving as the design lead and team captain. In terms of boy scouts, currently the highest leadership role, **Junior Assistant Scoutmaster**, for Troop 685, the largest troop in San Diego with over 130 boys.

Business/Entrepreneurship:

Ran and organized local STEM camps and classes for kids, and has reached over 100 boys and girls in the past 5 years. In addition, co-developed The NOMAD Alliance which is a website aimed to enable robotics teams with the data they need.

Ran a private math tutoring business, helping over 10 students from ages 6-14 with math areas ranging from pre-algebra to pre-calculus.

Skills

Technical Skills:

- **Programming experience** in Swift, HTML, CSS, Javascript, Python, Java, C and C++
- **CAD skills** in Autodesk Inventor and PTC OnShape
- **Design expertise** in the FRC robotics vertical
- **CAM skills** in FDM and SLA 3d Printing, along with a custom 3-axis CNC
- Basic **mechanical and electrical skills** (Drill, soldering, wiring, chop saw)
- Intuitive and **sophisticated understanding of iOS**, Apple software and applications.

Leadership Qualities:

- Gracious professionalism
- Hardworking and driven
- Outspoken and engaged

- Honest and humble
- Charismatic and optimistic
- Encouraging and empathetic

Accomplishments

Scouts:

2016: Served as the Webmaster, Patrol Leader, then Assistant Senior Patrol Leader for Troop 685

2017: Achieved the rank of **Eagle Scout** after just three years and four months

2018: Earned **126 merit badges** over four years

2018: Elected to the **Order of the Arrow**, a prestigious leadership group within the BSA

2019: Elected to be the **Junior Assistant Scoutmaster** for Troop 685, highest possible youth position

Robotics:

2018: Team NOMAD earned **Highest Rookie Seed** award at the San Diego Regional

2018: Elected to be the **safety captain** for NOMAD

2019: Elected to be the **mechanical team lead** for NOMAD

2019: Semifinalist for the **Dean's List award**, which is a prestigious leadership award within the robotics league

2019: Team NOMAD **won the 2019 San Diego Regional**.

2019: Team NOMAD is awarded the **Qualcomm Innovation Award**, competing at the elite **World Championships** in Houston

2020: Unanimously elected to be the **Team Captain** of NOMAD. In addition, also elected to be the design lead

Additional resources:

LinkedIn Profile: https://www.linkedin.com/in/abenstirling

GitHub profile: https://github.com/abenstirling

Design:

https://cad.onshape.com/documents/233d52882cb4aaf8a20febba/w/272925d0388c0dc17abda19f/e/3d146b7ac8059e632

Availability

Notes: I am looking for a part time job with 12-20 hours a week. My schedule is flexible as I am in school. I am available from now until the 15th for training, and will be able to start anytime after November 23. My general avaiability is as follows-

Monday: 1-7 pm

Tuesday: 1-7 pm

Wednesday: 1-7 pm

Thursday: N/A

Friday: 1-6 pm

Saturday: N/A

Sunday: N/A

Thank you for your time and consideration 🙂