David Boles

College sophomore passionate about designing complex systems across engineering disciplines.

Brown University
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EXPERIENCE

Brown Space Engineering — *Flight Software/ Treasurer*

SEPTEMBER 2018 - PRESENT

· Evaluated toolchains and technologies for the next iteration of our satellite operating system.

Styra — *Intern*

JUNE 2019 - AUGUST 2019

· Developed a configurable, markdown-compatible system for embedding live, interdependent blocks of code into public-facing documentation.

· Contributed to various subsystems of both the product frontend and backend.

Oracle Education Foundation — *Intern*

MARCH 2016 - JUNE 2018

· Guided groups of students in designing human-centered solutions.

· Taught curriculum about electronics and programming in collaboration with Program Managers.

· Prepared class resources including documentation and libraries.

B.R.E.A.D. FRC Robotics Team — *Robot Division Lead/ Systems Integration Manager/ Programming Group Lead*

SEPTEMBER 2015 - JUNE 2018

· Managed and coordinated several independent groups, composed of over 40 students and several mentors, to build competition-ready, 80+ pound robots.

· Developed a modular robot control architecture written in Java.

· Designed and implemented an overhaul of team structure and processes based on interviews with students and mentors.

EDUCATION

Brown University, RI — *3.8 GPA*

SEPTEMBER 2018 - PRESENT

· Introduction to Robotics *(in progress)*

· Digital Electronics Systems Design *(in progress)*

· Design and Implementation of Programming Languages *(in progress)*

· Introduction to Software Engineering

· Electrical Circuits and Signals

· Dynamics and Vibrations

· Applied Ordinary Differential Equations

SKILLS

User-Centered Design

Programming
· Java
· Go
· C
· Web
  · Javascript (ES8)
  · React/ Redux
  · HTML/ CSS
· Racket

CAD
· Solidworks
· Fusion 360

Rapid Manufacturing
· 3D Printing
· Laser Cutting
· CNC Milling/ Routing
· PCB Etching

AWARDS

Rookie All-Star Award
Awarded to B.R.E.A.D. at the Silicon Valley FIRST Robotics Competition Regional, 2016

LANGUAGES

English *(native)*

French - 9 years

Spanish - 4 years

OTHER INTERESTS

Knitting

Ceramics

Philosophy