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| **Bruce Liu** | **US citizen** |
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* **Education:**
  + Computer engineering: Metropolitan State University Denver (2019-2025)

“In progress” [part time]

* + - circuits
    - digital systems
    - java, c, python
  + Associate of Science: Front Range Community College (2015)
    - major physics
    - took intro sciences chemistry, biology, astronomy, macroeconomics, sociology, psychology
    - integral calculus
* **Projects:**
  + Drone project
  + Kevlar chemical exposer deterioration experiment
    - Found that beach destroys Kevlar
    - A fast 3-hour experiment with test tubes of household chemicals to find out why one of the best threads in the world was deteriorating
  + Computer science 1050 projects:
    - savings, reimbursement per mile
  + CSP (customer service portal)
    - Installed and upgraded a lot of PCs.
  + Built my personal desktop computer
    - 3 times and semiannual maintenance
* **Job experience:**
  + **Metropolitan State University Denver** role: **“Learning Assistant**” (2/2020 - 5/2021)
    - Aids in the learning of
      * Intro to computer engineering
        + Micro bit

Typescript.js coding language used.

Soil sensor

Lab multimeter

Lab DC power supply

* + - * + Binary/ Hexadecimal/ decimal number conversion
        + Introduced metric number prefixes
      * Senior design
        + Sourcing parts and data sheets

Jenson Nano

Arduino nano 33 BLE sense

Sensors

Introduced communication protocols

Directed project planning and foreseeable issues

* + - * + Drone project

Created a project to get the ball rolling to show what is possible.

Directed project planning and foreseeable issues.

Attempted to direct isolated testing to eliminate unknown’s loss time due to major project sections failure.

Decomposing and synthesizing requirements, parts, and steps

Power

ESC (electronic speed controller)

Battery

Motor

* + - Evaluate student’s mindset and learning style.
    - Customize content for deeper understanding.
    - Microsoft teams
      * Answer questions in chat
      * Showed demo code.
      * One on one mentoring
      * Created meetings.
  + **Novasyte** role**: “Medical device technician”** (6/2019 – 3/2021)
    - Alaris system maintenance (PCA, syringe, pump, PCU, ETCO2)
      * Check in, preventive maintenance, calibration, detailed physical inspection, upgrade software.
    - Med fusion 4000
      * Check in, calibration, add to network.
  + **Lnomic Tech Solutions:** role: “**project technician**” **(**5/2018-8/2018)
    - Adding the PCs and network Switches to TUNA’s Networking Program.
    - Flashing PCs image in the events when the updates failed.
    - Traveled to Kroger stores in Colorado, New Mexico, Nevada, and Utah.
    - Updated existing PCs hardware and installations to Western Union Transactions and Money Services
    - Trained employees how to use the new system.
    - Barcode scanner
* **Technical Computer Skills:**
  + Flashing PC image
  + Printer installation
  + Routers
  + PC refurbishing & building
* **Software:**
  + IDEs
    - Code blocks, Visual studio, Jgrasp
  + TUNA (Tactical Undersea Network Architecture)
  + GitHub, OneDrive, Dropbox, Google drive
  + PowerPoint, Word, Excel
* **Electronic Hardware**
  + [Arduino](https://www.arduino.cc/,) FPGA, [Micro bit](https://microbit.org/)
    - Development boards
  + Oscilloscope, Lab multimeter (Siglent SDM3045X), signal generator, oscilloscope (SDS1104X)
    - Electronic testing equipment that I have learned to use in college, and I have at home.
      * I am experimenting with them to do automated testing via USB to my computer
  + soldering, breadboarding, hole through pcb
  + Installing TV, VCRs, DVD, game consoles
* **Programing languages**
  + Java, C, **C++,** Arm assembly, Typescript.js, MIPS assembly,Python
* **Spoken languages.** 
  + English
    - Born and grew up in the USA
  + Mandarin Chinese
    - Household language
  + Japanese
    - Interpreted from known Chinese tones and anime fansubs translations.
* **Certifications**
  + Aseptic Technique and Infection Control for the Sales Professional
  + Bloodborne Pathogens Safety
  + Fire Safety
  + HIPAA: What Healthcare Workers Need to Know
  + Orientation to the Operating Room for the Sales Professional
  + Harassment & Discrimination Prevention
  + Bullying in the Workplace