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* **Education:**
  + Computer engineering: Metropolitan State University Denver (2019-2023) “in progress”
  + Associate of Science: Front Range Community College (2015)
* **Job experience:**
  + **Metropolitan State University Denver** role: **“Learning Assistant**” (2/2020 - current)
    - 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 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 – 4/2021)
    - 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
    - Me and my brother called this a nuke. Since the action deletes the information in the operating system hard drive and does a fresh install of a computer operating system alone.
  + Printer installation
    - Get it talking though the network and find the drivers. I use a cannon MX922 right now. I think I had 5 other printers at home.
  + Routers
    - Most of these are referred to as plug and play in the industry. One does need to login to them to change the pass code and network name.
  + PC refurbishing & building
    - I have built my computer. Before I was maintaining a HP computer it was bought in 2008 at home my original computer still exists sort of it only has no original parts left. My father uses this computer.
      * This PC was a windows 7 HD now a windows 10 with a SATA SSD
    - I built my current home computer.
      * Installation of
        + solid-state drive (SSD) M.2 and SATA
        + Processors
        + GPU
        + Power supply
        + Ram
        + Motherboard
        + Cd /DvD drive
* **Software:**
  + IDEs
    - List of Ides I have used although I prefer anaconda PowerShell now.
    - Code blocks ,Visual studio, Jgrasp
  + TUNA (Tactical Undersea Network Architecture)
    - A program for business computer network management. Not too different from using a modem or a router. Has more permissions.
  + GitHub, SkyDrive, Dropbox, Google drive
    - File sharing platforms
  + PowerPoint, Word, Excel
    - Used in many school assignments.
      * Power point is used in presentations.
      * Word is for essays and resumes.
      * Excel is used for data analysis.
* **Electronic Hardware**
  + [Arduino](https://www.arduino.cc/,) FPGA, [Micro bit](https://microbit.org/)
    - Development boards
  + Oscilloscope, Lab multimeter, signal generator, oscilloscope
    - 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 PCB
    - for circuit testing
  + I have used laptops
    - I have added ram and a M.2 Solid-state Hard drive to my laptop
  + Installing TV, VCRs, DVD, game consoles
    - It’s just getting the input/ output coax cables, RCA cables correct, S video, whatever connector it uses
    - Channel setup run it in the menu
* **Programing languages**
  + Java
    - Learned in computer science 1050
  + C
    - This is my preferred language
    - Currently at function and .h .level implementation
    - Have experimented with atom and anaconda powershell implementation
  + **C++**
    - Currently experimental
  + Arm assembly
    - I programed the Arduino uno in this language
  + Typescript.js
    - Learned and taught in computer engineering 1040
    - Used in Micro bit
  + MIPS assembly
    - Learned in computer science 2400
* **Lab experiences** 
  + Electronics lab
    - Home and Metropolitan State University
  + Chemistry lab
    - Front Range Community College Some home experiments
  + Physics lab
    - Front Range Community College
  + Biology lab
    - Front Range Community College
  + Astronomy lab
    - Front Range Community College
* **Spoken languages.** 
  + English
    - Born and grew up in the USA
  + Mandarin Chinese
    - Household language
  + Japanese
    - Interpreted from known Chinese tones and anime fansubs translations.
* **Projects:**
  + Drone project “In Progress”
  + Automated electronic testing” In Progress”
  + Computer Server “In research phase”
  + Electroplating
    - This was a failure mostly seems one cannot fully trust YouTube videos anymore.
    - I might need to get some better chemicals for this.
    - I learned that the salinity of the liquid effects the power used.
    - I learned the distance of the cathode and anode effected the reaction speed.
    - This was a bit fun
  + 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 a lot of PCs and upgraded a few.
  + Built my personal desktop computer

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| Part Name | Reasoning | Part Name | Reasoning |
| 2700x AMD CPU | AM4 support until 2020. | 32gb ram DDR4 2933MHz | As stated on AMD webpage |
| 1050Ti GTX Nvidia GPU | Recycled part | 1 tb M.2 SSD Boot drive | Faster boot up |
| 4tbx2,7200rpm hard drives | RAID experimentation | 8tb 7200 rpm hard drive | Backups and long-term storage |

* **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