

# Matthew Ahou

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## Projects

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### Remote Controlled Car – Personal Engineering Build

- Designed and assembled a 2WD RC car capable of reaching 20 km/h on indoor and various outdoor terrains
- Integrated LiPo battery system, electronic speed controller (ESC), UBEC voltage regulator, and Flysky transmitter for wireless control
- Modeled and 3D-printed a custom chassis and components using CAD (SolidWorks)
- Programmed an Arduino microcontroller to interface between the Flysky receiver and motor driver, enabling forward/reverse throttle functionality along with precise steering response
- Applied soldering and circuit integration practices to establish reliable power and signal connections, using insulation and routing methods to ensure durability and safety

## Skills

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|-------------------|---------------------|------------------|
| ▪ SolidWorks      | ▪ Microsoft Office  | ▪ 3D Printing    |
| ▪ Arduino         | ▪ Raspberry Pi      | ▪ Organizational |
| ▪ MATLAB          | ▪ Analytical Skills |                  |
| ▪ Problem-Solving |                     |                  |

## Work Experience

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### Westwood Tailor Shop & Cleaners

Westwood, MA

#### Manager (Seasonal)

June 2021 - Present

- Oversee daily operations of a family-owned tailoring and dry-cleaning business, ensuring efficient and excellent customer service
- Process and track customer orders and ticket and retrieve clothes promptly
- Maintain and update transaction records, streamlining order tracking and improving service speed
- Collaborate with family members efficiently, reducing wait times and increasing customer satisfaction
- Ensure store upkeep, inventory management, and quality control to uphold professional standards

## Education

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### Wentworth Institute of Technology

Boston, MA

*Bachelor of Science*

Expected Aug 2028

Major in Mechanical Engineering

Cumulative GPA: 4.0/4.0, Dean's List x2

Relevant Coursework: Applied Engineering Analysis-BSEN, First-Year Engineering Design, Engineering Graphics

### Westwood High School

Westwood, MA

*Mmemberships: National Honor Society, Chemistry Club*

## Volunteer

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### Westwood Youth & Family Services

Westwood, MA

#### Mentor

Sep 2021 - Nov 2023

- Served as mentor and role model for youth aged 11-14, fostering personal growth and confidence through weekly engagement
- Led study sessions to support academic development, encouraging collaboration and inclusivity among students
- Organized and facilitated bonding activities, including board games, video games, and more, to build a welcoming and supportive environment
- Created opportunities for self-expression and learning, guiding young teens in developing communication and teamwork skills

## Additional

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Awards: Dean's List (x2), William Sheehan Memorial Scholarship, The Westwood Community Scholarship