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DAVID CHENG

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EDUCATION

New York, NY	New York Institute of Technology	Expected May 2022
<ul style="list-style-type: none">• Major: Electrical & Computer Engineering, M.S. (GPA: 4.00/4.00)		

New York, NY	New York Institute of Technology	Sept 2017-May 2021
<ul style="list-style-type: none">• Major: Electrical & Computer Engineering, B.S. (GPA: 3.89/4.00)• Degree Honors: <i>summa cum laude</i>• Presidential Honor List (2018-2021)		

WORK EXPERIENCE

Teaching Assistant	New York Institute of Technology	Sept-Dec 2021
<ul style="list-style-type: none">• Administered weekly tutoring sessions to Signals and Systems students to help keep them on track with course material and assignments.• Assisted professor in assignment grading and file organization.		

PROJECTS

GitHub Page: [www.github.com/daviecheng](https://github.com/daviecheng)

Posture Corrector Device, Self-Project

- Sdfsd
- Jh

Wellness App, School Group Project

- Sdfs
- Sdfds

Automatic Blind Turner, Self-Project

- Programmed ESP8266 microcontroller to wake up every hour from deep sleep and adjust the blind position according to the weather and time of day (Arduino).
- Utilized the OpenWeatherMap API to retrieve weather and time of day information by parsing JSON.

Autonomous Locking Knee Brace, Senior Design Project

- Wrote an algorithm that distinguishes the user as falling or non-falling for a given sampling interval, and locks the preset flexion on knee brace when a fall is detected (Arduino, MATLAB).
- Trained and implemented Random Forest machine learning algorithm with a 94.5% fall detection accuracy for my movements (Python, MATLAB).

SKILLS

- **Software:** (proficient): C/C++, HTML/CSS, MATLAB (familiar): Python, Java, Assembly (8051)
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