Gerard (Jed) Mijares

Mail/Phone Redacted

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github.com/jedmijares

EDUCATION	**University of Kentucky, Lewis Honors College**	**GPA: 4.00**
	Candidate for B.S. in Computer Engineering	*Anticipated: Spring 2021*

EXPERIENCE

Electronics Research and Development Co-op — **Summer 2018 and 2019**

Midea America Research Center — *Louisville, KY*

- Programmed in C++ to develop embedded prototypes for home appliances, and added functionality to software written by previous co-ops
- Collaborated with software engineers at Midea's San Jose office to integrate vision and voice recognition software to a prototype through the Nvidia Jetson
- Prepared presentation for Midea's mechanical engineering co-ops on Arduino hardware and programming for rapid prototyping
- Used Autodesk EAGLE to capture schematics and lay out prototypes' PCBs

Electrical Team Member — **Fall 2017 – Present**

Solar Car Team — *University of Kentucky*

- Electrically designed car's dashboard and steering wheel, including defining functionality, selecting components, creating schematics, and PCB layout
- Communicated with team members of various disciplines to define mechanical constraints and software requirements of electrical systems

Engineering Peer Tutor — **Fall 2018**

Tau Beta Pi — *University of Kentucky*

- Assisted engineering and computer science students in understanding coursework

Student Assistant — **Summer 2017**

Kumon Math and Reading Center — *Newburgh, IN*

- Lead students in elementary through high school in math and reading assignments

PROJECTS

Handheld Battleship Game — **Spring 2019**

- Worked in a team of two to implement Battleship on a TI Tiva Launchpad board
- Responsible for designing and implementing game logic, component selection and integration, and PCB design and assembly

Material Sorting Machine — **Spring 2018**

- Lead a team of five students building a device that sorted 5 types of disks
- Wired and programmed an Arduino with a photoresistor, multicolored LED, and several servo motors to categorize and sort the disks by physical properties

HONORS AND AWARDS

Patterson Scholarship

A full ride to the University of Kentucky, awarded for National Merit Scholar status

Signet Essay Contest Scholarship Winner

$1000 scholarship awarded for an essay written on Shakespeare's *The Tempest*