

Gerard (Jed) Mijares

Mail/Phone
Redacted

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EDUCATION	University of Kentucky, Lewis Honors College <i>Candidate for B.S. in Computer Engineering</i>	GPA: 4.00 <i>Anticipated: Spring 2021</i>
EXPERIENCE	Electronics Research and Development Co-op <i>Midea America Research Center</i> <ul style="list-style-type: none">Programmed in C++ to develop embedded prototypes for home appliances, and added functionality to software written by previous co-opsCollaborated with software engineers at Midea's San Jose office to integrate artificial intelligence software to a system through the Nvidia JetsonPrepared presentation for Midea's mechanical engineering co-ops on Arduino hardware and programming for rapid prototypingUsed Autodesk EAGLE to capture schematics and lay out custom PCBsCreated a user interface with SFML on a Linux based appliance prototype	Summer 2018 and 2019 <i>Louisville, KY</i>
	Electrical Team Member <i>Solar Car Team</i> <ul style="list-style-type: none">Electrically designed car's dashboard and steering wheel, including defining functionality, selecting components, creating schematics, and PCB layoutCommunicated with team members of various disciplines to define mechanical constraints and software requirements of electrical systemsAssisted newer members in learning various processes, such as using CAD software, assembling PCBs, and operating electrical lab equipment	Fall 2017 – Present <i>University of Kentucky</i>
	Engineering Peer Tutor <i>Tau Beta Pi</i> <ul style="list-style-type: none">Assisted engineering and computer science students in understanding coursework	Fall 2018 <i>University of Kentucky</i>
PROJECTS	Handheld Battleship Game <ul style="list-style-type: none">Worked in a team of two to implement Battleship on a TI Tiva Launchpad boardResponsible for designing and implementing game logic, component selection and integration, and PCB design and assembly	Spring 2019
	Material Sorting Machine <ul style="list-style-type: none">Lead a team of five students building a device that sorted 5 types of disksWired and programmed an Arduino with a photoresistor, multicolored LED, and several servo motors to categorize and sort the disks by physical properties	Spring 2018
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 <i>The Tempest</i>	