

JACK KOLB

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EDUCATION

- **Ph.D. Robotics — in progress** *Aug 2020 - present*
Georgia Institute of Technology
Advisor: Sonia Chernova
- **B.S. Mechanical Engineering (Honors)** *Sept 2016 - June 2020*
University of California at Riverside
Capstone Title: "An Autonomous Robot Capable of Scaling a Self-Built Structure"

RESEARCH EXPERIENCE

- **Graduate Research Assistant** *Aug 2020 - present*
Advisor: Sonia Chernova
Research Focus: Improving human-robot team performance by utilizing individual human traits.
- **Undergraduate Research Assistant** *Apr 2018 - June 2020*
Advisor: Sundararajan Venkatadriagaram
Research Focus: Predicting electric motor failure by analyzing motor vibrations.

WORK EXPERIENCE

- **NextGen Assistive Technology**
Cloud Developer *June 2020 - Sept 2020*
 - Transformed idea sketches for an in-home remote caregiving system into NextGen's flagship product, reaching hundreds of paying customers.
 - Leveraged Microsoft Azure's Event Grid, Power Apps, and IOT Hub platforms.
- **UC Riverside Autonomous Underwater Vehicles (UCR RoboSub)**
Project Lead *Aug 2018 - Aug 2020*
Mechanical Lead *Aug 2017 - Aug 2018*
Mechanical Team *Sept 2016 - Aug 2017*
 - Led 25+ members in the interdisciplinary development of two autonomous robot submarines.
 - Researched and implemented systems for heading control, depth control, computer vision, autonomous mission control, object interaction, and 3D sandbox simulation.
 - Competed in the international RoboSub competition (2017, 2018, 2019, 2020).
 - Worked with university departments, corporate sponsors, and student organizations for funding, technical theory, logistics, and outreach to local youth communities.
- **UC Riverside Department of Residential Life**
Resident Advisor *Sept 2018 - June 2020*
 - Managed a building of 75 students via mentorship, programming, and community building.
 - On-call responder for fire, medical, mental, and safety crises in a ~1200 resident area.
 - Peer-awarded MVP for both '18-19, and '19-20 years.