Jack Kolb

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Robotics/Mechatronics   Artificial Intelligence   Software Engineering

B.S. Honors Mechanical Engineering, UC Riverside   -   2016 - 2020
Emphasis in Robotics, 3.95 GPA

Python   C#   C++   Git   Heroku   MatLab   Solidworks   Unity3D

Certified Solidworks Associate, Mechanical Design   -   2017

Current Projects:

General Artificial Intelligence   -   Python, Numpy/Scipy, OpenCV
Sentient AGI
Procedural Environment Generation   -   C#, Unity3D
Generated universe, with unique interacting AI factions
Algorithmic Trading   -   Python, Interactive Brokers
Self-managing, profitable daytrader :: forward testing

Completed Projects:

Chatbot, Natural Language Processing   -   Python, LINE, Google Drive APIs, Heroku
A versatile LINE chatbot, with many features
End-to-End-Encrypted File Transfer   -   C++
A low-level, secure, file transfer program
Computer Vision, Object Tracking   -   Python, OpenCV, Raspberry Pi
Hackathon: simultaneously tracks moving cups
Voice Recognition for Electronics Control   -   Python, Wit.ai, Raspberry Pi
Hackathon: voice-controlled circuit switches
Website Scraping, Automated SMS   -   Python, Google Drive APIs, Raspberry Pi
Sends UCR's restaurants' daily menus via text
Image Recognition, Task Automation   -   Python
Instagram "Like" bot, mimics human motion

Affiliations:

UCR RoboSub, Mechanical Team   -   2016 - 2017 :: Member
Competitive AUV team, I focused on torpedoes,   2017 - 2018 :: Mechanical Co-Lead
chassis, dropweights, frame, and overall design
American Society of Mechanical Engineers   -   2016 - 2017 :: Member
Presentations, events, workshops, and speakers   2017 - 2018 :: Workshop Leader
Institute of Electrical and Electronic Engineers   -   2016 - 2018 :: Member
Association of Computing Machinery   -   2016 - 2018 :: Member
Cross-Campus Entrepreneurs   -   2016 - 2018 :: Member
Presentations and advice for starting up a company
National Residence Hall Honorary   -   2016 - 2018 :: Member
Community service and campus involvement
Hackathons:
Citrus Hack   -   2016 :: Participant, Demoed
Cutie Hack   -   2017 :: Participant, Demoed