

# Kourosh Arasteh

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## Education

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**University of Illinois** Electrical Engineering, BS- May 2019, Minor Computer Science

### Technical Coursework:

Electrical and Computer Engineering:	Computer Science:	Fundamentals:
◆ Multimedia Signal Processing*	◆ Making Sense of Big Data*	◆ Probability with Engineering Applications
◆ Field Robotics*	◆ Artificial Intelligence	◆ Differential Equations Plus
◆ Robotics	◆ Algorithms & Models of Computation	◆ Calculus III Honors
◆ Digital Signal Processing & Lab	◆ Data Structures	◆ Quantum Physics
◆ Electronic Circuits & Lab	◆ Computer Systems & Programming	
◆ Fields and Waves I	◆ Discrete Structures	
◆ Digital Systems Laboratory		
◆ Analog Signal Processing		

## Professional Experience

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**Undergraduate Research Assistant** *Distributed Autonomous Systems Lab* Champaign, IL (9/17-Present)  
Real-time classification of sub-canopy crop features using camera data. 3D LIDAR pointcloud/camera data fusion using Kalman filters. Localization and mapping of dynamic, off-road environments (SLAM). Developing training regimes to minimize volume of training data required for algorithm convergence. Standardization of robotic data collection in the field.

**GMT Intern – Automation Integration** *Anheuser-Busch InBev* St. Louis, MO (6/17-8/17)  
Updated all 22 US breweries to 5GHz wireless coverage. Research 802.11 standards and technologies for potential to apply to network infrastructure update. Revise legacy Anheuser-Busch Wireless and Wired LAN Standards. Develop documentation of Radio Resource Management best practices. Perform pilot RF signature site surveys to develop access point distribution plan. Perform IPsec research.

**GMT Intern – Business Development PM** *Anheuser-Busch InBev* New York, NY (6/16-12/16)  
Implemented sustainable management practices through creating business descriptions, process maps, service level agreements, key performance indicators, standard operating procedures, and routine review processes. Managed monthly partner royalty reports and quarterly payments. Developed \$31MM Budget Dashboard. Developed Wholesaler tracking dashboard. Aided development of 1YP.

**Project Manager** *DashVR(Startup)* Sunnyvale, CA (6/15-9/15)  
Established and managed international supply chain. Maintained comprehensive social media presence, company blog, and online store. Developed prototypes to maximize ergonomics and profit. Drafted entirety of marketing collateral. Defined value proposition through consumer research and competitive differentiation. Collaborated with Google to get "Cardboard Certified." Maximized web traffic to site through improving SEO. Established network of market influencing bloggers. Ensured order fulfillment.

## Skills

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Software Fluencies:	Hardware, CAD, and Modeling Proficiencies:	Professional Trainings:
◆ C++ & Python	◆ SystemVerilog/VHDL/FPGA	◆ 5S, PDCA, SDCA
◆ OpenCV	◆ Solidworks & EagleCAD	◆ Root-Cause Analysis
◆ ROS	◆ MATLAB & Simulink	◆ Lean 6σ Yellow Belt
◆ Tensorflow	◆ Mathematica	◆ Leadership & Management

## Activities

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<b>Engineering Council Executive Board</b> , EOH Director, Secretary Treasurer	Champaign, IL (8/15 - Present)
<b>Engineering Open House</b> , Director, Director of Exhibits	Champaign, IL (8/16 - Present)
<b>ECE Open Lab and Champaign-Urbana Fabrication Lab</b> , Contributor	Champaign, IL (1/16 - Present)
<b>Chabot Space &amp; Science Center</b> , Senior Team Captain	Oakland, CA (5/13 - 6/15)