Kourosh Arasteh

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Education

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

Current Technical Courses: Artificial Intelligence, Algorithms and Models of Computation, Control Systems

Completed Technical Courses: Robotics, Data Structures, Digital Signal Processing, Electronic Circuits, Electronic Circuits Laboratory, Fields and Waves I, Digital Systems Laboratory, Discrete Structures, Probability with Engineering Applications, Analog Signal Processing, Computer Systems & Programming, Differential Equations Plus, Calculus III Honors, Quantum Physics

Professional Experience

Undergraduate Researcher   *Distributed Autonomous Systems Lab*   Champaign, IL (9/17-Present)
Undergraduate member of Machine Learning Group. Developing SLAM route-planning and vision based guidance of low-cost, autonomous cooperative farm vehicles for sub-canopy analytics. Designing monocular vision based guidance system in dynamic time-varying environments without LIDAR or GPS data. Path-planning and Reinforcement learning using ConvNets.

GMT Intern – Automation Integration   *Anheuser-Busch InBev*   St. Louis, MO (6/17-8/17)
Develop plan to update all 22 US breweries to 5GHz wireless coverage. Research new 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.

US Ambassador   *One Young World*   Bangkok, TH (11/15-Present)
Attend plenary sessions regarding Global Business, Human Rights, Peace and Security, Leadership and Government, Environment, and Education. Debate, formulate and share innovative solutions for the pressing issues the world faces. Develop corporate Water Initiative with AB InBev to improve Community Drought Resilience and ensure Sustainable Agriculture (UNSDG 2,7).

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.

Senior Team Captain   *Chabot Space & Science Center*   Oakland, CA (5/13–6/15)
Lead planning events and managed volunteers as Captain of Astronomy Team. Coordinated logistics of weekly telescope viewing through volunteer scheduling and equipment maintenance. Lead long-term development of demonstrations for the general public to spark interest in Astronomy including budgeting and target audience research. Worked on teams developing new exhibits through prototype testing. Managed inventory of Astronomy Team equipment.

Activities

Engineering Council Executive Board, EOH Director, Secretary Treasurer   Champaign, IL (8/15 - Present)
Engineering Open House, Director, Director of Exhibits   Champaign, IL (8/16 - Present)
ECE Open Lab and Champaign-Urbana Fabrication Lab, Contributor   Champaign, IL (1/16 – Present)

Skills

Academic Fluency in:	Professional Proficiency with:	Professional Trainings:
♦ C++ & Python	♦ Tensorflow	♦ 5S, PDCA, SDCA
♦ ROS	♦ OpenCV	♦ Root-Cause Analysis
♦ SystemVerilog/VHDL/FPGA	♦ Solidworks & EagleCAD	♦ Lean 6σ Yellow Belt