Arjun Dave

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Education

University of California, Berkeley August 2014 – May 2018
Bachelor of Science, Mechanical Engineering

- Dean's List (Spring 2017)
- Completed degree in three years with accelerated course schedule

Experience

McGinnis Chen Associates, Inc. – architectural consulting May 2017 – Present
Staff Engineer II

- Led cross-functional teams to construct high-performance commercial buildings, earning $1m+ in revenue
- Oversaw technical communication with key stakeholders, bolstering trust and generating contract renewals
- Validated performance of 100+ architectural assemblies through 2D and 3D modeling and field testing

WriteLab, Inc. – educational software October 2014 – August 2016
Business Operations Manager

- Raised $2.5m in venture funding and developed strategic partnerships, leading to acquisition and 5x+ ROI
- Identified and implemented process efficiencies to reduce monthly budget by 35% while increasing output
- Developed business models and product milestones to create revenue path and define success
- Crafted company culture, values, and priorities, culminating in high long-term employee retention

Projects

Autonomous Race Car January 2018 – May 2018

- Developed software that integrates vehicle dynamics and control systems to perform autonomous drifting, lane keeping, and racing on scale model electric car

Iron Battery April 2017 – August 2017

- Designed, prototyped, and validated low-cost iron-based battery intended for mass manufacturing in partnership with Lawrence Berkeley National Laboratory

Automatic Snacks Maker January 2018 – May 2018

- Designed and prototyped electromechanical device to create s'mores snacks (including automated food handling, heating, and assembly)

Skills

Technical Topics

- Lean Manufacturing and Agile Development, Strategic Management, Organizational Development, Mechatronics Design, Dynamics and Control, Fluid Mechanics, Heat Transfer, Building Technology

Software and Programming Languages

- 3D modeling with Fusion 360 and SolidWorks and 2D modeling with AutoCAD
- Programming and design validation with MATLAB, Python, and LabVIEW