

# Arjun Dave

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I'm a driven UC Berkeley engineer with diverse project management experience seeking to bring my strong work ethic, ability to learn quickly, and positive attitude to bring world-changing ideas to life.

## Education

**University of California, Berkeley** August 2014 – May 2018

*Bachelor of Science, Mechanical Engineering*

- Dean's List (Spring 2017)
- Completed degree in three years (gap year for full-time work) with accelerated course schedule

## Experience

**McGinnis Chen Associates, Inc.** – architectural consulting May 2017 – Present

*Senior Staff Engineer*

- Managed multiple commercial projects simultaneously, working with cross-functional teams to ensure construction quality and conformance with design intent and specifications
- Consulted with Owners, Architects, and Contractors to deliver 100+ high-performance buildings
- Investigated existing construction to pinpoint failure sources and remediate construction deficiencies
- Validated performance of 200+ architectural assemblies through FEA simulation and field testing

**WriteLab, Inc.** – educational software October 2014 – August 2016

*Business Operations Manager*

- Identified and implemented process efficiencies using Agile methodology, reducing monthly budget by 35%
- Raised \$2.5m in venture funding and developed strategic industry partnerships, culminating in acquisition
- Developed business model and R&D investment strategy to create revenue path and improve product-user fit
- Published internal SaaS sales playbook and feedback pipeline to grow revenue and ensure customer success
- Crafted company culture, values, priorities, and policies, resulting in high long-term employee retention

## Projects

**Autonomous Race Car** January 2018 – May 2018

- Developed software integrating vehicle dynamics and control systems to perform autonomous drifting, lane keeping, and racing on scale 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. Battery in active production and distribution.

**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

- Strategic Management, Agile Development, Lean Manufacturing, Organization and Process Development, Dynamics and Control, Mechatronics Design, GD&T, Design for Manufacturing, 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