

# CHINMAY ALADANGADY

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Employability Status: US Citizen

## EXPERIENCE

### TK Elevator

Atlanta, GA

*Mechanical Engineer II*

Nov 2022 - Present

- Built and industrialized safety gear and overspeed governor subsystems for the new EOX elevator platform
- Evaluated and calculated stresses in sheet metal assemblies using FEA, solvers, and custom calculators
- Coordinated design compliance to ASME and EN elevator codes with Electrical, Software, and Field Technicians

### Diversitech Corp.

Duluth, GA

*Product Development Engineer*

Apr 2018 – Nov 2022

- Launched and supported retail HVAC condensate pumps through full product lifecycle
- Rapidly prototyped using 3D printing, casting, or woodwork to simulate assembly and test design concepts
- Acquired live data using custom-built Arduinos, sensors, and Raspberry Pis to analyze performance on 50+ pumps
- Produced drawing templates and solved issues with version control as SolidWorks CAD PDM Administrator
- Created in-house testing solutions to pass ASHRAE, UL, ETL, or CE regulatory requirements prior to PPAP
- Fielded technical questions and translated direct voice-of-customer feedback into product quality improvements

### Vernay

Griffin, GA

*Manufacturing Engineer*

Jul 2017 – Apr 2018

- Implemented plant-wide documentation consolidation, resulting in 25% less redundant work instructions

### Greene, Tweed & Co.

Houston, TX

*Engineer II*

Dec 2016 – Jul 2017

- Led 3D CAD design, sustaining, and quality engineering activities for \$7M proprietary product line
- Worked directly with machinists and molders to design for manufacturability, scalability, and process efficiency
- Reviewed OEM specifications and requirements to create customized preliminary design proposal packages
- Released customer-facing standard product catalogs that reduced design-to-quote lead times by 40%
- Developed automated manufacturing and costing reports to save 80% lead time

*Engineer I*

Jan 2013 – Dec 2016

- Analyzed root cause (5Y, 8D, MSA) with quality engineering to rapidly respond to customers
- Implemented searchable internal design database to re-use or find similar designs up to 80% faster
- Reduced tool design time by 30% by creating standard mold tooling template for complex assemblies

## SKILLS

### Certifications

ISO 9001:2015 Quality Systems Auditor, Lean Six Sigma Green Belt, EPA 608 Type 2

### Engineering and Optimization

SolidWorks CAD, Drawings, and Simulation, PDM, GD&T (ASME Y14.5), Minitab, DOE, FMEA, Plastic Injection Molding, Rubber Molding

### Programming

Visual Basic, Python 3, MATLAB, C++, FORTRAN 90

### Other

Expert Communicator, Technical Presentations, Cross-Functional Teamwork

## EDUCATION

### The University of Texas at Austin

Austin, TX

Bachelor of Science - Aerospace Engineering

2008-2012

## LEADERSHIP AND ACTIVITIES

### Texas Spacecraft Laboratory

Austin, TX

*Structures Subsystem Team Lead*

Jan 2012 - Dec 2012

- Led structural design and development team for ARMADILLO satellite mission with NASA and AFRL

## PUBLICATIONS / WHITE PAPERS

**Co-author**, *Feasibility Analysis of XSOLANTRA: A Mission Concept to Detect Exoplanets with an Array of CubeSats*