

## Contact

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(LinkedIn)

## Top Skills

PV-ELITE  
CODE CALC  
NOZZLE PRO

## Languages

Marathi  
Malayalam  
English

## Certifications

FE Mechanical EIT

# SANJAY PILLAI

Mechanical Designer at RGD Consulting Engineers  
West Palm Beach, Florida Area

## Summary

- Proactive, self-motivated, and enthusiastic mechanical engineer with EIT certification.
- Three years' industrial experience in mechanical design of custom-made engineering equipment for petrochemical industry.
- Software: Skilled in AutoCAD MEP, SolidWorks, Simulink, Arduino, ANSYS, PV-Elite, Nozzle Pro, TEMA FSE.
- Programming Languages: C, C++, Python, MATLAB.
- Codes: ASME Section VIII DIV I & II, ASME section II, ASME B16.5, B16.9, B36.10M, B36.11, B36.20, B36.19M, WRC Bulletin 470, TEMA 9th edition, API 660 8th edition.
- Proficiency in: Microsoft Word, Excel, Project and PowerPoint; Google Docs.

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## Experience

RGD Consulting Engineers  
Mechanical Designer  
February 2019 - Present  
Jupiter Florida

- Analyze and design mechanical systems for a variety of facilities.
- Develop design and construction documents, including flow diagrams, plans and sections, details, specifications, equipment schedules and calculations.
- Size and specify mechanical equipment, including air handling units, chillers, cooling towers, compressors etc.
- Assist with site surveys, field investigations, condition surveys and feasibility studies for proposed projects.
- Coordinate with other disciplines including site civil, structural, electrical, instrumentation, controls and architectural, to create and update drawings and main documentation.

- Ensure that cost, customer service, quality, schedule and safety are incorporated into the design from commencement through completion.

### Indorama Ventures PCL

#### Engineering Intern

June 2017 - August 2017 (3 months)

Lake Charles, LA, USA

- Performed field verification of over 300 pieces of static equipment in accordance with manufacturing drawings and P&ID.
- Developed document handling directory for all existing and new equipment installed in field.
- Summarized design data and technical information of all static equipment
- Collaborated with site team in field testing and erection of pressure vessel and heat exchangers

### Geecy engineering pvt ltd.

#### Design Engineer

July 2013 - June 2016 (3 years)

MHAPE, Mumbai, India

- Performed ASME code calculations (Strength calculation, Heat treatments, Testing requirements) for pressure vessels and heat exchangers and developed design details.
- Reviewed general arrangement drawings and manufacturing detail drawings, project technical specifications, design data sheets.
- Organized client technical review meetings and technical discussions.
- Developed purchase requirements for long delivery items like forging.
- Managed projects by monitoring project progress, coordinating activities with sub-vendors, resolving problems, and communicating job status both internally and externally.
- Fulfilled project documentation (Design Reports, Deviations, Document Transmittals, ISO documents).
- Led team in ASME renewal audit and ISO audit

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## Education

### University of Illinois at Chicago

Master of Science (MS), Mechanical Engineering · (2016 - 2018)

### Mumbai University

