

# ADINATH GUNJAL

## Sr Electrical Design Engineer

📍 Pune  
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### MAJOR PROJECTS

#### FLEET-AGV, Rotterdam

- Developed the Electrical system, Electrical cabinets for the Rotterdam(Netherlands) & Hongkong airports under the new Innovative Product portfolio of FLEET AGV(Automated Guided Vehicle)
- Designed the complete Electrical System with SEW Drive and Siemens-based PLC for this project

#### Steerable Wheel Module, FedEx Prague

- Involved in the first **site proto** of this product.
- Responsible to prepare EM Typicals, Power calculations, Field material specifications, design documents, creating test set-up, etc

#### Transfer Belt Single-Ongoing Development

- Interacting with multidisciplinary team members to create a **Prototype** and then a standard product of this **90-degree diverter** to be used in Warehouse and Parcel Automation.

#### Autonomous Unmanned Ground Vehicle

- Designed Power Distribution Board and Fail-safe module using Arduino-based circuitry in DRDO's prestigious Project AUGV

### COMMUNITY INVOLVEMENT & ACHIEVEMENTS

- Placement Coordinator: responsible for placement-related activities in Btech for a batch size of 75 students
- Secured 15th rank at All India intercollegiate design competition **BAJA SAE 2016**
- Awarded **K.C. Mahindra Education Trust**, All India Talent Scholarship, 1 amongst 100 students
- Sports Secretary: Coordinated end-to-end execution of 8 sports events at GPA for the year 2013
- Gold medal in Weight lifting & Wrestling for 2 consecutive years of Diploma

### SUMMARY

Passionate Electrical Design professional with 6 years of experience in control panel design, Product Development, and instrumentation support in projects.

Currently working as part of the Development Centre Equipment Team. Mainly responsible for the development of market-leading solutions, electrical control cabinets, and specifying electromechanical components for use in Baggage Handling Systems at Airports, Warehouses, and Parcel automation.

### PROFESSIONAL EXPERIENCE

April 2022 -

Present

#### Senior Electrical Design Engineer

Vanderlande Industries Private Limited

- Working as an **Electrical R&D engineer** who **develops** and **maintains** Electrical cabinets to be used in Airports' Baggage Handling Systems, Warehouse, and Logistics Automation
- Responsible for **maintaining** the complete portfolio of **standard cabinets** and developing new cabinets and Electrical systems
- Skilled in **specifying Electrical material** for the above-mentioned systems
- Practicing the **Agile** way of working for the **Development** of equipment modules and for Product Lifecycle Management-Certified **SAFe** practitioner
- Performed the **HSRA and Performance Level calculations** for various safety areas pertaining to the above applications
- Effectively planned and executed the tasks entailing preparation of **GA drawings, SLD, Schematic Drawings, BOM, and Product** development
- Familiar with the **Electrical IEC & UL standards applicable** in the EU and NA region
- Well-versed with **design calculations** of panels such as Heat load calculations, Power supply requirements, Short circuit calculations
- Understanding on **Motor** selection & sizing.

Sept 2018 -

March 2022

#### Electrical Design Engineer

Vanderlande Industries Private Limited

- Responsible for the **Product Lifecycle Management** of the Electrical components used across Vanderlande. A tool used - **Enovia**
- Constructed Panel wiring diagrams using the **Eplan and AutoCAD** tools. Comfortable with the latest version of the Software.
- Involved in the new development of the **E-plan macros** library
- Conversant with Siemens **PLC hardware** selection and specifying network
- Hands-on experience in handling **Nord** and **Eaton** drives
- Consume knowledge about the various **networks** such as Profibus, Profinet and ASI
- Developed a tool in **Enovia** for easy selection of all the required Electrical components in panel designing which was appreciated by the team and is now used extensively in Vanderlande globally. Effectively reduced man-hours for component selection by **~40%**
- Developed a Power design template that is widely used in Engineering projects for Power calculations with **Excel** tool and **VBA** scripting

Oct 2017 -

Sept 2018

#### Junior Research Fellow

Vehicle Research and Development Establishment(VRDE),DRDO

- Created schematic designs of **Power Distribution Board** and completed end-to-end wiring of the system
- Developed and installed the **Fail-safe module** to protect AUGV using **Arduino-based** circuitry
- Development, installation, and complete wiring of the Vehicle Actuation Module
- Conducted problem diagnosis to discover **Common grounding** & recommended solutions for **fault** isolation
- Hands-on experience with **LabView** software

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## INTEREST

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- Reading
- Swimming
- Playing Cricket, Chess

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## EDUCATION

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2013 - 2016	<b>Bachelor of Technology (B.Tech), Electrical Engineering</b> Government College Of Engineering, Aurangabad CGPA - 8.3 (~83%) First Class With Distinction
2010 - 2013	<b>Diploma in Electrical Engineering</b> Government Polytechnic, Aurangabad 90.40% -Principal's Gold medal for securing Department Rank 1 out of 150 students
2009 - 2010	<b>SSC</b> A.E.S's Bhingar Highschool, Bhingar 94.18%-5th Ranker From School in the batch of 400 Students

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## PERSONAL DETAILS

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Postal Address: Flat no B702, Sai Sanskruti Apartments, Wagholi, Pune - 412207

Nationality: Indian

DOB: 13 Aug 1994

Marital status: Married

Passport Number: S7903046