

# Mathew Alexander

Junior Engineer - Automation

## Profile

An engineer passionate about implementing the latest technologies of Industry 4.0 to current systems with an outlook to maximize efficiency using minimal resources. I believe in carrying out my work with the highest integrity.

## Employment History

### Junior Engineer - Automation at Basis Mold India, Pune

October 2017 – Present

- Heading the automation department, which consists of a milling line with 2 CNC Milling machines connected by a Robot, an EDM machine, and CMM machine all linked by Erowa's Job Management system.
- Developed clamping systems to reduce job setting times, and to streamline design for manufacturability
- Testing and implementing new technologies such as auto-alignment, program restart for the entire machine shop to reduce downtime of machines as well as training the operators on these new functions
- Involved in daily production meetings to identify and mitigate risks of manufacturing operations
- Supervising the process planning & WorkNC CAM program for all steel parts such as lifters, sliders, and electrodes that are milled in the automation department and to inspect if the part is as per tolerances set
- Conducting internal audits of other departments as per ISO9001:2015
- To update and modify tasks on WorkPlan ERP software to ensure smooth flow of projects.
- Troubleshoot all errors between robot-machine interface, Job manager-machine interface, perform preventive checks to before alarms come up

### Graduate Engineering Trainee at Kraftsman Tooling Private Limited (Subsidiary of Basis Mold India), Pune

July 2017 – October 2017

- I joined Kraftsman Tooling which was partnering with Silver Basis, China and Faurecia, France to setup a state of the art toolroom in Chakan, Maharashtra.
- To monitor the daily progress at the plant and coordinate with teams in China and France. Compile all the information related to the imported machines and follow up for their contract reviewal, to customs and importing procedures, to plant readiness for machine installation.
- I was our company's single point of contact for the machine suppliers to coordinate and execute all tasks needed to get the machines installed and running. This included all tasks from supervising machine foundation work to ordering power cabling, pneumatic systems, network connections, procuring various grades of oil for machine operation etc.
- Coordinate with suppliers for general plant setup such as epoxy flooring, HVAC, power generator commissioning, and plant office renovation.

## Details

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Richards Town, Bangalore,  
560005, India, +91 8970220152  
[mathew1alexander@gmail.com](mailto:mathew1alexander@gmail.com)

Date of birth

11-03-1995

## Skills

Grasp of Engineering  
Fundamentals

Knowledge of Manufacturing  
processes

Geometric Dimensioning &  
Tolerances

Effective Team Leader

Clear Communication

Conducting Root Cause Analysis

## Languages

English

Hindi

German

Malayalam

## Hobbies

Playing football, tennis, Reading  
Autobiographies, Watching  
Documentaries

## Education

**B.Tech in Mechanical Engineering, Christ University, Bangalore**

July 2013 – May 2017

Aggregate: 74.9%

**PUC, St. Joseph's College, Bangalore**

June 2011 – March 2019

Aggregate: 71%

**ICSE, Vidya Niketan School, Hebbal, Bangalore**

June 2001 – March 2011

Aggregate: 85.8%

## Internships

**Design and Development of Tendon Manipulator at Indian Institute of Science under Dr. Ramsharan Rangarajan**

April 2016 – May 2016

**Design and Construction of ATV vehicle at Elite Techno Groups**

April 2015 – May 2015

## Projects

**SAE Baja 2017- Pithampur, Madhya Pradesh**

Captained our team in an international competition where out of 400+ engineering colleges, 150 qualify to compete & build an All Terrain Vehicle.

**Automatic Grounding System for High Voltage Lab, Christ University**

A device used to safely remove static discharge from high voltage equipment.

## Courses

**Erowa Standard Production & Automation, Erowa AG, Switzerland**

May 2018

**Catia v5 for Mechanical Design, CMS Institute, Bangalore**

June 2019 – July 2019

**Internal Auditor Course ISO9001:2015, SGS Academy**

September 2018

**Technical Computation with MATLAB, CoreEL Technologies**

February 2017

## References

**Mr. George Joseph, General Manager from Basis Mold India**

[george.joseph@basismold.com](mailto:george.joseph@basismold.com)

**Prof. N. Ram Kumar, Assistant Professor & SAE BAJA Faculty advisor from Christ University**

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