



## **INDUSTRIAL VISIT REPORT**

**NAME OF THE INDUSTRY:** AIMTRON ELECTRONICS PVT LTD

**DATE:** 12<sup>th</sup>, FEBRUARY, 2018

**VENUE:** 1A GIDC ESTATE, WAGHODIA: 391760 (GUJARAT), INDIA

**NO. OF STUDENTS PARTICIPATED:** 43(Second Year EC Students)

**FACULTY MEMBERS: 03**

Dr. Hitesh Shah

Prof. Rohit Parmar

Prof. Parthesh Mankodi

Objectives of Industrial are to enhance the knowledge of students, to make aware of real industry, to know the persons of industry and what is the working role of the person in the industry.

One day industry visit to Aimtron electronics was organized was organized by Electronics & Communication Engineering Department, GCET for their 4th-semester students as a part of Industrial visit activity. The visit was planned for making observations in the desired framework of the study.

Aimtron started producing in India in 2011, despite the great economic hardships that come with starting a global venture. The early Aimtron team had already laid the foundation in the USA. After focusing on perfecting our processes in America, Aimtron mirrors those process in India so that our production has the same Aimtron Quality that is found in the USA.

Aimtron is an India-based manufacturing industry located in Waghodia. They have a partnership with PCB suppliers in Shenzhen, China. It offers expert services for PCB assembly, particularly with assemblies requiring quick turn prototyping, BGA expertise and high volume

PCB Assembly. Its main headquarters is in Palatine, Illinois. They mainly sell their products in U.S.A. and China.

Aimtron is an international, full-service CEM that provides cost-effective, integrated and high-quality solutions. Aimtron offers expertise in all phases of the product spectrum, for New product development through legacy support. We proudly offer design services, rapid prototyping, and a variety of services to support your needs, regardless of product age or order size.

Aimtron strives for fair mutually profitable solutions, and actively looks to reduce unnecessary cost where possible. We support our customers and enable them to reach success through our transparent and collaborating pricing. Our customers know us for our superior technology and DFM expertise.

Aimtron's end goal is to serve our customers with high quality finished product. Using the certifications, knowledge, and overall experience that our team has acquired, we can do this with ease. We are ESD S20.20-2007 compliant and are certified to the ISO 14001 & ISO 13485 standards. Also, comply Management system requirement of AS 9100D & IATF 16949. In addition, members of our team have obtained IPC 7711/7721 certification. Aimtron is committed to compliance with Section 1502 of Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010. Please see our policy regarding this commitment. Aimtron extends that same commitment to our RoHS II & REACH compliance policies.

Aimtron uses Automated Optical Inspection (AOI) as an accurate and efficient means to verify SMT placement. With the laser add-on, we are able to scan a BGA to verify that it is level and at the correct height. A fluctuation in height could indicate reflow errors, but the use of the laser height check will allow us to catch those types of defects and fix them. In addition to the laser height check, we also use x-ray to verify that the balls under the BGA have properly collapsed, as well as check for bridging. We have the ability to capture the image from the x-ray for customer records if required.

Due to prior communications with Aimtron, Public Relation officer made special arrangements for students of GCET. The visit started with the experts where theoretical knowledge was provided along with an explanation of PCB designing process and showing a glimpse of AIMTRON. It also gave an introduction of company profile and its present functioning in AIMTRON for a different activity.

In post visit period students visited PCB manufacturing plant.

We are thankful to the institute & company management for providing all facilities and generous support.

This visit was organized in association with IAS-PES Joint Chapter, IEEE GCET Student Branch.

## PHOTOGRAPHS









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**(A Charutar Vidya Mandal Institution)**