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## **CAREER OBJECTIVE**

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As a young and energetic engineer, qualified in Master's and bachelor's in **Metallurgical Engineering**. I am seeking a position to utilize my skills and abilities in the technical field and to enhance my flexibility flair and mental acumen.

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## **KEY STRENGTH**

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- Excellent academic records
- Hard worker
- Flexible to take any responsibility

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## **ACADEMIC QUALIFICATION**

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<b>Degree</b>	<b>Passed on</b>	<b>Name of the Institution</b>	<b>Percentage/CGPA</b>
M.E(Industrial Metallurgy)	May 2015	PSG College of Engineering, Coimbatore.	<b>9.17*</b>
B.E (Metallurgical Engineering)	April 2013	Government College of Engineering, Salem.	<b>8.36*</b>
12 <sup>th</sup>	March 2009	Adharsh vidyalaya Hr. Sec School, Erode	<b>89.92</b>
10 <sup>th</sup>	March 2007	Sri Ramakrishna Hr. Sec School, Coimbatore.	<b>87.63</b>

\* **CGPA**

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## **PROFESSIONAL QUALIFICATION**

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- joined as **PROJECT ASSOCIATE** under Dr. B S Murty in Department of Metallurgical and materials Engineering, IIT Madras, Chennai. (From August 2015 – Present)

## AREA OF INTEREST

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- Physical And Mechanical Metallurgy
- Metal Casting
- Non Destructive Testing
- Heat treatment

## INDUSTRIAL EXPOSURE

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### ACADEMIC PROJECT WORKS

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#### **Project 1:**

- **“SYNTHESIS AND CHARACTERIZATION OF TbFe<sub>2</sub> POWDERS USING MAGNETIC FIELD ASSISTED BALL MILLING”**

The project work done under guidance of Dr. J. Arout chelvane and Shri Mithun palit, Scientist ‘D’, DMRL. The main objective of our project was to increase coercivity of TbFe<sub>2</sub> powders by using magnetic assisted milling.

**Duration:** 5 Months (From December 2012 to April 2013)

**Funding Institute:**

Defense Metallurgical Research Laboratory (**DMRL**), Hyderabad.

**Project Reference Number & Date:** DMRL/HRD/2013/009 & 09-04-2013.

#### **Project 2:**

- **“EFFECT OF DIFFERENT PRECURSORS OF SILICA-ZIRCONIA DERIVED SOL GEL COATINGS DEPOSITED ON SS304 SUBSTRATE”**

Summer project was done under guidance of K.R.C Somaraju Technical Officer ‘D’, C-SOL, ARCI. These coatings are mainly used as hydrophobic coatings on plastics. The main objective of my project was to improve corrosion resistance and scratch hardness in austenitic stainless steel.

**Duration:** 2 Months (From May 2014 to June 2014)

**Funding Institute:**

International Advanced Research Center For Powder Metallurgy And New Materials. (**ARCI**), Hyderabad.

**Date:** 18-06-2014.

#### **Project 3:**

- **“GRAIN REFINEMENT OF Mg-Al ALLOYS BY USING Al<sub>4</sub>C<sub>3</sub> Powders”**

The project was done under guidance of Dr. K. R. Ravi, Associate Professor, PSG Institute of Advanced Studies (**PSGIAS**) and Dr. V. Udhayabanu, Assistant Professor, PSG College of Technology (**PSGCT**). The main objective of my project to prepare and characterize the Al<sub>4</sub>C<sub>3</sub> powders for grain refinement of Mg-Al alloys.

**Duration:** 10 months (From August 2014 to May 2015)

**Date:** 23-05-2015.

## **INDUSTRIAL TRAINING**

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- **VIZAG STEEL PLANT (RINL), - November, 2011 – December, 2011**  
Training as part of curriculum complimented my theoretical knowledge on iron and steel making and we had some experience with characterisation techniques.
- **SALEM STEEL PLANT (SAIL), Salem- November, 2010**  
Summer training at SAIL Salem we are exposed to wide range of industrial technologies in the field of arc smelting practices and different forming process.
- **SAIL REFRACTORIES LTD, Salem- April, 2011**  
Familiarized with real time difficulties experienced in various areas like refractory materials and their production methods.

## **CERTIFIED COURSES**

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- Non Destructive Testing ASNT Level I & II at **QTECH**, Chennai.  
ASNT Level I & II in
  - Ultrasonic Testing (**UT**)
  - Radiographic Testing (**RT**)
  - Magnetic Particle Inspection (**MPI**)
  - Dye Penetrant Inspection (**LPI or PT**)

## **PAPER AND POSTER PRESENTATION**

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- Have presented paper on “**ANALYSIS OF SURFACE CARBON POTENTIAL AT LPG ATMOSPHERE**” at Adhiyaman College of Engineering, Oosur.
- Paper published on “**GRAIN REFINEMENT IN Mg-AI ALLOYS USING  $Al_4C_3$  POWDERS**” in conference proceedings of **NSAMP 2015** at PSG College of Technology, Coimbatore.

## **MEMBERSHIPS**

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- Student member in The American Ceramic Society (ACerS)
- Student member in ASM International (ASM)
- Student member in The Minerals, Metals And Materials Society (TMS)

## **WORKSHOP**

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- Underwent workshop on “**STEELS**” at PSG College of Technology, Coimbatore.
- Underwent workshop on “**SMART MATERIALS**” at IIT, Madras.

## RESPONSIBILITIES

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- Act as Secretary in Society Of Advancement Of Metallurgical Engineers, GCE, Salem (2012-2013).
- Act as a Treasurer in LEO Club, GCE Salem (2011-2012).

## EXTRA-CURRICULAR ACTIVITIES

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- NSS volunteer
- Active member in Blood donor camp, LEO Club Salem
- Represented as laptop operator in parliament election 2014
- Member of Rotract club in GCE Salem

## SOFTWARE SKILLSs

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**Packages** : Microsoft Office 2007  
**Platforms Used** : Microsoft Windows 9X, Windows XP, Windows Vista.

## CAREER ACHIEVEMENTS

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- Secured '**best outgoing student award**' in M.E Industrial Metallurgy at PSG TECH Day 2015.
- Secured '**best paper award**' in 'NSAMP 2015' held at PSG College of Technology.
- Secured '**best project award**' in Post Graduate academic project work.

## PERSONAL PROFILE

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Father's Name : Mr. K.Gothandapani  
Date of Birth : 20/09/ 1991  
Gender : Male  
Languages Known : Tamil & English  
Passport number : L8870687  
Hobbies : Playing volleyball, internet surfing.

## DECLARATION

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I hereby declare that the information furnished above is true, correct and complete to the best of my knowledge.

Place: CHENNAI

yours truly,



Date: 02/01/2016

KARTHICK.G