

ROLES & RESPONSIBILITIES

- Studied the performance of heat sink with heat pipes used for cooling of electrical enclosures using ANSYS FLUENT
- Validated simulation values with results from theoretical calculations and experimental data for certain trials
- Optimized different parameters of heat sinks with heat pipes using Taguchi optimization method

RESULTS

- This study helped the team optimize the parameters for heat sink used for cooling of electrical enclosure and helped the team reduce their experimental costs by approximately 35%
- This study helped the team use a systematic method for optimizing different parameters of heat sink rather than trial and error method

* Cost results could not be shared due to confidentiality issue

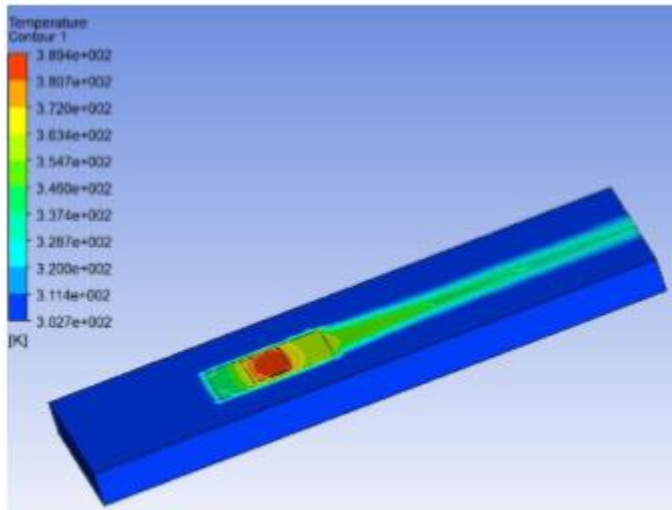


Fig 1. Temperature on enclosure for 3rd trial

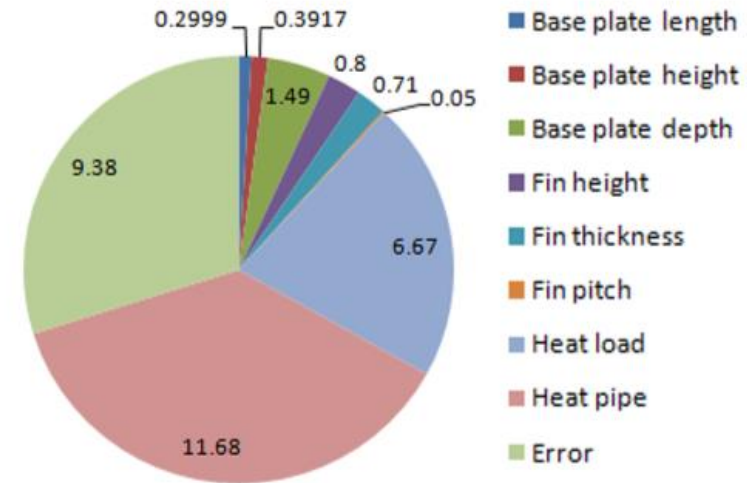


Fig 2. Results of influencing factor based on taguchi method

* For more information on this project kindly view journal sections of my web page