Resumè of Yin Lam

Email: Yinlam30@gmail.com | November 2020

Employment History:

1. Supermicro: System validation (thermal) engineer (December 2018 – Present)

- Conduct screening tests for developing servers
- Validate thermal solution(s) for servers and individual electronics
- Collect, compile, analyze data and report tests result
- Develop new validation test and draft documentation / standard of procedure

2. San Josè State University: Research assistant (August 2016 – May 2018)

- Maintain, troubleshoot, and repair laboratory hardware
- Design and test developing experimental apparatus for undergraduate classes
- Manage lab resources (restock consumables, update SDS and document chemicals)
- Design and perform experiments as requested; compiled and present data.

3. Phi-Hong USA Corporation: Mechanical engineer (February 2015 - May 2016)

- Organize bill of material of OEM power supply
- Draft technical documents and CAD for customer review
- Inquire vendors and suppliers for cost, lead time of part or service, and sample

Skillset:

1. Microfabrication, process characterization of microfluidic devices and microelectromechanical systems (MEMS)

2. Proficient in the following CAD software: SOLIDWORKS, Creo, MasterCam, AutoCAD

- Evaluate tolerances, dimensions, and material specifications using software/measuring tools per ANSI 14.5Y

3. Proficient in the following simulation software (thermal and structural): ANSYS WorkBench, COMSOL

- Design and develop optimization criterions for cost-down

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Other Skills: Rapid prototyping by 3-D Printer, MS Excel, Word, basic machining (mill and lathe), CNC G-code programming, geometric dimension and tolerances (GD&T), MATLAB, LabVIEW

Volunteer work:

Our city forest – Tree amigo (2019 - Present): Coaching & mentoring volunteers in tree planting events

San Josè State University - Research mentor (June 2018 – Present): Mentoring and assist students on research skill (e.g., literature review, data collection techniques and reporting) microfluidics lab.

Education:

(August 2016- May 2018): San Josè State University, Master of Science: Mechanical Engineering

(August 2009- June 2013): University of California, Santa Barbara, Bachelor of Science: Mechanical Engineering

Past and current research:

1. Fidelity of Temperature Measurement by Thermographic Imaging Through an Intermediate Window

Synopsis: This project aimed to determine the extent to which IR thermography measurement is affected by the presence of an intermediate window. Temperature measurements by infrared (IR) thermography are sometimes taken through an intermediate window, but the window interrupts measurement fidelity. The corresponding inaccuracy needs to be determined in order to correct the reading of the thermographic device (e.g. IR camera). By using a sheathed thermocouple as a benchmark, experimental measurements were conducted to determine the difference between temperatures measured by thermocouple and by an IR camera.

2. Experimental Investigation of Liquid Cooling through Shallow Copperclad Cavities with Etched Pin-Fin Arrays

Synopsis: This project aims to develop a fabrication process for a PCB-compatible micro-porous layer for heat removal by convection with single-phase liquid. The heat transfer effectiveness of the copperclad microchannel heat sink will be evaluated by custom-made testing apparatus. The success of this project will provide a fabrication process for porous material for the Microfluidic laboratory of San Josè State University and a new thermal management solution for small portable electronics.

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