

# CHENG-CHIEH FANG

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## EDUCATION

UNIVERSITY OF MASSACHUSETTS, Lowell, MA

December 2013

**Master of Engineering in Mechanical Engineering GPA: 3.4**

KUN SHAN UNIVERSITY, Tainan, Taiwan

June 2004

**Bachelor of Science in Mechanical Engineering GPA: 3.35**

## ACADEMIC and PROFESSIONAL EXPERIENCE

Master of Engineering Candidate, Lowell, MA

September 2012 – December 2013

### **Engineering projects**

- Completed a Solar Energy Engineering Project for environmental monitoring and recording; Gathered and processes data to determine the daily isolation and temperature data for global specified location and time.
- Collaborated on a Solar Fundamental Project which explored the advantages and product manufacturability of a solar collector and various coating specifications for efficiency determination.

TAIWAN NAVY, Kaohsiung, Taiwan

August 2005 – August 2010

### **Marine Engineering Officer – Lieutenant (January 2009 – August 2010)**

- Led a team of 54 engineers in the completion of professional assignments and naval maneuvers.
- Served as a watch officer in the engine room monitoring the Lafayette-class frigates power system for the entire ship; conducted power system maintenance to ensure high performance of the frigate.
- Five year experience in managing purchasing of machinery and parts.
- Emergency Diesel Generator, Diesel Engine driven Fire Water Pumps and HVAC system.
- Multi stage Air Compressors, Air dryer, Air Heaters.

### **Damage Control Officer -Second Lieutenant (August 2005 – January 2009)**

- Implemented maintenance and damage control to prevent damages caused by fire, flooding, power-off, and other unforeseen circumstances to ensure an operational and safe warship on the ocean.
- Trained and supervised personnel in labor and health safety to prevent work disasters and injuries.
- Analyzed and projected any unforeseen circumstances to ensure an operational and safe warship.

## ADDITIONAL TRAINING

ARMY CHEMICAL WARFARE CORPS SCHOOL, Taoyuan, Taiwan

April 2008

### **Radiation Safety Training Program**

NAVAL TRAINING SCHOOL, Kaohsiung, Taiwan

February 2006

### **Pre-job Training Engine Room Watch Officer**

NAVAL ACADEMY, Kaohsiung, Taiwan

August 2005

### **Professional Military Officer Courses in Marine Engineering**

## CERTIFICATIONS

**Certificate of Labor Safety and Health Education**, Labor Safety & Health Association of Taiwan, 2010

**Professional and Technical Personnel Level 1 Engineer**, Examination Yuan of Taiwan, 2009

**Technician Certificate of Labor Safety and Health Management**, Council of Labor Affairs Executive Yuan, 2008

**Certificate of Naval Ship's Engine Room Watch Officer**, Naval Training School, 2006

**National Certificate of Life Guard Water Saving**, National Water Life Saving Association, 2001

## HONORS & AWARDS

First Prize of Naval Warfare Technique Competition, 2009 ~ Naval Commendation Medal, 2008

## SKILLS SUMMARY

Technical: Abaqus (Finite element analysis), LabVIEW, MATLAB, Auto CAD, Adobe Premiere, Adobe Photoshop, Flash, Microsoft word, Excel, and Powerpoint, Access, Publisher

Languages: Fluent in English, Mandarin, Chinese, and Taiwanese

簡 歷 表				
個人資料	姓名	方政傑	英文名	Jay Fang
	性別	男	生日	1982.5.29
	通訊地址	100 Massmills Drive Apt.520, Lowell, MA 01852 USA		
	E-mail	Chengchieh3@hotmail.com		
	通訊電話	+1(347)348-3359		
學歷資料	最高學歷名稱	美國麻州大學洛爾分校 University of Massachusetts Lowell		
	最高學歷系所	Master of Engineering in Mechanical Engineering		
	獲得學位	機械工程碩士		
	就讀時間	9/1/2012 - 12/19/2013		
	擅長科目	Applied Mathematics, Mechanical Behavior of Materials, Finite Element Analysis, Industrial Design of Experiment, Engineering Project Management and Robotics, Mechanical Drawing, Mechanical Manufacturing and Automation		
	次高學歷名稱	崑山科技大學		
	學歷系所	機械工程系		
	次高學歷名稱	海軍軍官學校		
	學歷系所	輪機工程組 (2005 年班)		
專長資料	語言能力	中文、英文、台語		
	電腦能力	Cross-platform expertise (Win/Mac)、Abaqus (Finite element analysis)、LabVIEW、MATLAB、Auto CAD, Photoshop、PowerPoint、Excel、Word and other Microsoft Office products		
	專業證照	中華民國考試院高等考試航海人員特考及格 (航海特考一等管輪) 行政院勞工安全衛生管理乙級技術士 TQC 辦公室軟件(Microsoft Office) 荷重在一公噸以上堆高機合格操作人員 海軍艦艇輪機室督導官(海軍一級軍艦 總排水量 3600 噸) 陸軍化學兵輻射安全管理 海軍成功級軍艦輪機官訓練合格 海軍拉法葉級軍艦輪機官訓練合格 國際水上救生員 合格汽車駕駛(美國及台灣)		

工作經驗		名稱	美國麻州大學洛爾分校 國際學生辦公室助理	
		工作時間	1/1/2013 - 4/1/2013	
		工作內容	主要負責接待新進學生、辦理相關入學程序及相關學生問題諮詢	
		名稱	海軍拉法葉級軍艦(編號 1202)上尉輪機官兼隊長	
		工作時間	1/9/2009 - 8/19/2010	
		工作內容	擔任海軍第一驅逐艦隊拉法葉級驅逐艦(排水量 3600 噸)上尉輪機官一職，主要負責全船料配件管理、主輔機裝備及所有動力系統維護，以及部門人員管理。	
		名稱	海鋒大隊二中隊中尉修護組長兼部門主管(駐屏東小琉球)	
		工作時間	1/9/2007 - 1/9/2009	
		工作內容	擔任海軍海鋒大隊第二中隊中尉修護長，為中隊保修部門主管，主要負責基地動力系統維護，料配件及部門人員管理。	
		名稱	海軍拉法葉級軍艦(編號 1207)擔任少尉損害管制官兼隊長	
		工作時間	8/19/2005 - 1/9/2007	
		工作內容	擔任海軍拉法葉級驅逐艦(排水量 3600 噸)少尉損害管制官一職，主要負責全船料配件管理、電力系統維護，以及全艦損害管制和部門人員管理。	
社團經驗	社團名稱	國樂社(二胡)	1998 年出訪紐西蘭奧克蘭大學(University of Auckland)及威靈頓大學(University of Wellington)並於紐西蘭威靈頓國家音樂廳演出	
榮譽事蹟	海軍海功獎章(2008) 海軍戰技競賽有功人員(2009)			