Chin Kooi (CK) KHOR

chinkhor@iastate.edu
chin.kooi.khor@gmail.com

OBJECTIVE

Pursue PH.D. study in area of computer science or software engineering

EDUCATION

M.S., Mechanical Engineering, Iowa State University, USA. (GPA: 3.91/4.00)
- Researched and developed an interactive Augmented Reality (AR) based tele-robotic system for use in robotic manufacturing applications
- Research assistant at Virtual Reality Application Center (formerly ICEMT)
- Majors: Artificial Intelligence, Neural Network and Virtual Reality

B.S., Computer Engineering, Iowa State University, USA. (GPA: 3.88/4.00)
- Major: Embedded Software and Digital Logic Design
- Top two percentile student accomplishment award
- Completed 2-year pre-pharmacy study in parallel

WORK EXPERIENCE

23 years of software engineering experiences, ranging from software development, integration, validation, devops and process automation, project and team management

Intel Microelectronics (M) Sdn Bhd, Malaysia (2004 – 2020)
- System Software Product – Site & Team Manager (2016 - 2020)
  - Established and started up system software product organization at Malaysia, consists of development, integration, validation and devops teams
  - Built and ramped up startup teams with open source development capability; established team competencies include Clear Linux distro and integration, Yocto Project, CI/CD & automation, security and CVE analysis, test automation framework, tool development, platform engineering.
- IoT - Linux Team Manager (2010-16)
  - Role & Responsibility: Linux I/O Driver and Yocto Project BSP Development and Integration
  - Team Building: formed and ramped up Linux I/O and Yocto Project BSP teams in 2014
  - Team Management: managed teams to develop and deliver BSP for Intel Atom, Core Client and Server platforms, inclusive of resource and budget planning
  - Engineering Efficiency: enabled continuous integration, automated Linux kernel and Yocto Project OS for daily builds, integrations, and testing
  - IoT Technology: ramped up new technology for team, such as integrated sensor hub driver and firmware. Added sensor development capability in team portfolio.
  - Open Source Development: drove software upstream to kernel.org and yoctoproject.org to maximize software re-usability across multiple Intel platforms, reducing cost of development and maintenance in long term
  - Eco-system Enablement: supported and maintained relationship with OS vendors (e.g. WindRiver and Mentor Graphics). Sponsored HCL (software vendor) to setup Offshore Development Center (ODC) in Penang, strategic plan to strengthen eco-system as well as reducing Intel sustaining cost for contingent workers

- Project Lead for Intel Atom Linux BSP development, integration and validation (2010-16)
    - Certified Scrum Master and Product Owner
    - Project Management: Led the teams in Linux BSP project planning (cost, schedule and scope) and execution (risk and quality management) for Intel Atom based products. Scope included Yocto Project Poky, I/O, Audio and Sensor development, integration and validation.
    - Leadership: defined Linux BSP development, integration and release strategy for Intel SoC products. Established Yocto Project automated build and integration infrastructure to facilitate development, integration and validation across multiple sites.

- Yocto Project BSP Lead and Planner (2010-16)
    - Yocto Project BSP roadmap planning and development/integration strategy definition for IOT's Atom, Core Client, Server products
    - Software Reusability and Scalability: Enabled single Yocto Project Common BSP to support multiple Intel platforms, reducing Linux BSP development and maintenance cost.

Past Experiences (before 2010):
- Project and Technical Lead for WinCE Board Support Package (BSP) (2008-2010)
- Project and Technical Lead for MSAuto In-vehicle Infotainment (IVI) (2008-2010)
- Software Architect for Operating System (OS) Boot Loader (2008)
- Software Architect for Ethernet Acceleration Firmware, Intel IXP (2004-2008)
    - Architected Network Processor Engine to support voice and ethernet concurrently (VOIP), QoS
- Technical Lead and Developer for Ethernet Acceleration Firmware, Intel IXP (2004-2008)
    - XScale ethernet driver and Network Processor Engine firmware development and testing

LSI Logic Storage Systems, Kansas, USA. (1998 - 2004)
- Staff Software Engineer for Customer Support
    - Storage System software enhancement and development for customers
    - Technical escalation support for customers
- Senior Software Engineer: system integration and development for Storage RAID, Cache, Volume Configuration, Channel Redundancy and Drivers
- Software Engineer: SCSI Driver and Fibre Channel Driver Development for RAID based storage systems.

Iowa Center for Emerging Manufacturing Technology (ICEMT), Iowa, USA. (1995 - 1997)
- Research Assistant: developed software to navigate instrumented devices (e.g. bicycle, tractor cab, etc) in 3D virtual reality or real time synthetic environment.

PATENT
Patent US20040267516 *Method for controlling and emulating functional and logical behaviors of an array of storage devices for different protocols*

PUBLICATION
Programming of a Virtual Assisted by a Neural Network for Manufacturing Applications, Proceedings of the Artificial Neural Networks in Engineering (ANNIE 1997).