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Ahsan Iqbal

Constituent Information

Name	Ahsan Iqbal	Contact Record Type	Applicant
Middle Initial		Account Name	
Title		Status	
Council District	4	Gender	Male
# of Board Memberships	0	Ethnicity	Other
Qualifications	I have 29 years of experience in the Boeing Company from hypersonics to ICBMs, and have a deep love for space and the sciences. My professional experience, undergraduate education from MIT and love of Space will bring a tech background to the board.		
Member Id		Comments	
		Other	Indo-Pakistan Subcontinent

Contact Information

Send mail to		Mobile	
Home Phone		Other Phone	
Phone		Business Phone	
Fax		Business Fax	
Email		Business Email	
Mailing Address		Other Address	
Created By	Boards and Commissions Liaison, 6/17/2018 11:24 PM	Last Modified By	Boards and Commissions Liaison, 6/17/2018 11:24 PM
Description			

Activity History

Email: Application Successfully Submitted

Related To	APP00004184
Task	<input checked="" type="checkbox"/>
Due Date	6/18/2018
Assigned To	Boards and Commissions Liaison
Last Modified Date/Time	6/17/2018 11:24 PM
Comments	<p>To: ahsan.iqbal@boeing.com</p> <p>CC:</p> <p>BCC:</p> <p>Attachment: --none--</p> <p>Subject: Application Successfully Submitted</p> <p>Body:</p> <p>Thank you for your submission. We appreciate your interest in Salt Lake County's Boards and Commissions process. We have received your application and are submitting it for review and consideration to the appropriate board coordinator. We will be in contact with you shortly for the next steps involved in the selection process. If you are selected for an interview, you can expect a phone</p>

call from the Board Coordinator.

Thank you, again, for your interest in serving. We do appreciate the time you invested in this application.

Regards,

Salt Lake County Boards & Commissions

boards@slco.org

Applications

APP00004184

Board **Clark Planetarium Advisory Board**

Date **6/18/2018**

Notes & Attachments

iqbal_resume_Jun_2018.docx

Type **Attachment**

Last Modified **Boards and Commissions Liaison**

Description

[**View file**](#)

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Ahsan Iqbal



Education

Massachusetts Institute of Technology

Bachelor of Science (SB), Aeronautics and Astronautics 1984

Cambridge, MA

Washington University

Master of Science (MS), Mechanical Engineering 1990

St. Louis, MO

Experience

BOEING (1997-Present)

Boeing Strategic Systems (2015 - Present)

Philadelphia, PA

Program Manager Flight Systems

- Responsible for Flight Systems of the Flight Test, Telemetry and Termination contract with US Air Force for upgrading Minuteman III Instrumentation with a waferless design. Manage schedule, cost, risk and opportunities, baseline control.

Boeing Networked Tactical ISR (2011 - 2015)

Philadelphia, PA

Rapid Prototyping and Integration Center Chief

- Chief Engineer for Boeing Networked Tactical Intelligence, Surveillance and Reconnaissance (NTISR) division. Oversight of engineering on programs and proposals to include quantifying tools and processes, development cost, risks and opportunities.

- Chief Engineer for Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS), the newest ISR aircraft in the Army inventory and a Program of Record. Led a multidisciplinary engineering team that includes mechanical structural, electrical, aero/performance, communications, mass properties, systems, and configuration management. Responsible for obtaining certification from Aviation Engineering Directorate(AED) through an Airworthiness Release (AWR) to DD250 of aircraft, Instructor and Key Personnel Training(IKPT) and Limited User Test(LUT).

- Chief Engineer and later Program Manager for RAMIS (Reconfigurable Airborne Multi-Int System), the most advanced multi-intelligence Intelligence, Surveillance and Reconnaissance (ISR) aircraft in the world. Completed design, build, test, calibration and obtained an FAA Supplemental Type Certificate for the aircraft in under 13 months. Responsible for oversight of all contracts, pricing, schedule and supplier management for the program.

Boeing IDS (2009 - 2011)

Philadelphia, PA

Program Manager, Phantom Works

- Program Manager for WRAITH aircraft, an internally funded, optionally manned, fixed wing airplane of the 5000 lb Gross Vehicle Weight Class. Coordinated with suppliers, set up program plans, including schedule and organizational plans. Assisted with business development and marketing and led the technical team to perform trade studies and develop structures, avionics, power systems, engine integration, payload integration, performance characteristics, systems and comms. Program designed to produce a flying prototype in 6 months.

- Vehicle Integration Manager for Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS) proposal. This \$350M proposal worth almost \$1.5B of potential business for the company was awarded to Boeing in November 2010. Responsible for integration of SIGINT, IMINT sensors and payload with corresponding Size, Weight, Power (SWAPC) allocation to meet performance requirements for the aircraft. Led a multidisciplinary team for the design of the aircraft interior, Environmental Control System (ECS), Aircraft Survivability Equipment (ASE), cockpit integration, Payload Integration, Electrical and Power, Communication, and Mobile Flight Line Operations Vehicle. Coordinated closely with Hawker Beechcraft to maximize performance of the aircraft and reduce weight.

- Program Manager for \$200M CounterNarcoTerrorism Technology Program Office proposal to modify twin turboprop aircraft for Intelligence, Surveillance and Reconnaissance (ISR) missions to include Thales Searchwater Radar, EO/IR, WAAS and SIGINT payloads. Responsible for developing proposal, Supplier Management Plan, Tier 5 Integrated Master Schedule, Integrated Master Plan, Bill of Materials, Work Breakdown Structure (WBS), Earned Value Management (EVM) Plan, staffing plans, program metrics, Airworthiness Certification Plans, Technical Performance Measures and Risk, Issues and Opportunities plans. Prepared artifacts for Executability Review and successfully obtained the Engineering, Operations and Management Commitment Letters, and submitted the proposal on schedule.

- Technical Leadership of Proprietary Program proposal. Details cannot be discussed.

- Vehicle Integration Manager in its preliminary phase for Yellow Jacket, a Beechcraft King Air 350 ISR. This was a Quick Reaction Capability (QRC) program. Coordinated Platform Systems Architecture, Systems Engineering, Design, Stress, Aero, Weights, Electrical, and Manufacturing. Successfully completed a rapid design of a composite sensor pod to house a specialized antenna, line of sight communication and an EO/IR sensor.

- Chief Engineer for Multirole Enforcement Aircraft (MEA) Proposal. Led vehicle design including integration of SIGINT, IMINT, Radar, Communications and Mission Systems into the air vehicle for the \$600M proposal. This was Boeing's first effort into the tactical ISR field and thus required initiative and motivation to develop Boeing's technical capabilities to be at par or better than our competitors.

Boeing IDS (2006 - 2009)

Philadelphia, PA

Leader, Structural Analysis Process Thread

Functional Manager for Structural Analysis for Philadelphia. Led the Structural Analysis Process Thread (SAPT) team under the MSE Function for IDS. Initiated thread by convincing management of the need to address tools and processes for stress analysts. The team was composed of multi-disciplined IDS, PW, IT and BCA engineers, ATF's, TF's and STF's. Published a Boeing Process Guide that established the "Loads to Notes" Process for the entire Boeing Company and is now a foundation for many decisions on tools, training and technology investment at an enterprise level. Tool selection was standardized by utilizing a consistent process, subject matter experts and Fellowship members and is being implemented by SAPT for all categories of stress analysis tools. Coordinated with IT to implement identified common tools. Prepared a curriculum and training material for all structural analysts. Member of Boeing team setting strategy and engagement with key analysis software vendors, MSC, Dassault Systemes and Altair. Member of Boeing recruiting team at MIT.

Boeing Rotorcraft, (2006 - 2008)

Philadelphia, PA

Capture Team Leader, CH-47D Chinook Accelerated Procurement Strategy

Led marketing effort for CH-47D's in Active Service to qualified International customers. This includes preparation for Gate Reviews, marketing strategy, interface with Washington Office, as well as the CH-47 Program. Proposals included CHAPS aircraft for the Saudi Ministry of Interior, Pakistan and Egypt.

Boeing Rotorcraft, (2004 - 2009)

Philadelphia, PA

Senior Manager, Structures Technology

Manager for Structures Technology. Responsible for providing state of the art structural analysis to Boeing sites around the US in the areas of ballistics, survivability, advanced analysis, optimization, armor design, impact and crashworthiness. Customers include 787, 747-8, MMA, Space Shuttle and a host of other programs. Led insertion of new technology on production programs to reduce cost and cycle time, including use of topological optimization, global optimization and certification by analysis. Development of strategy for technology insertion, roadmapping and interface with programs to facilitate personnel deployment, training and technology transfer. Responsible for coordination with IT for capital purchases for servers, desktop and laptop images developed specifically for stress, as well as development, deployment and maintenance of software for analysts.

Boeing Rotorcraft, (2004 - 2009)

Philadelphia, PA

Senior Manager, Structural Analysis

Functional Manager for all 150 stress engineers in Philadelphia. Responsible for Tools and Processes, People, and Technical Integrity for Stress Analysts. Responsible for hiring, promotions and placement of

stress engineers, including development for Technical Fellowship. Measure of success is five candidates becoming ATF's and three TF's in the last four years. Successfully led the Boeing Company in deploying the newest Structural Analysis Toolset on the Chinook New Build Program.

Boeing Rotorcraft, (2004- 2005)

Philadelphia, PA

Manager, CH-47 F New Build Structural Analysis

Successfully completed a special assignment to lead Chinook build through a successful CDR after significant issues were identified in the Stress area. Interfaced with Aviation Engineering Directorate (AED) and St. Louis 46 section team, and led the Affordable airframe stress team. Aircraft was certified with limited flight test without a need to undergo full structural test based on analytical data. Recognized for accomplishment with Boeing Award, and specific mention by Army Customer. Led development and deployment of Lean Analysis tools on Chinook and briefed LEAT Scoring Panel which resulted in 0.2 shift in score for CH-47 program. Frequent interface with suppliers and assembly facility in Macon, GA, to keep the aircraft on schedule and developed a process for including MRD data in the Product Data Manager.

Boeing Rotorcraft, (2001- 2004)

Philadelphia, PA

Manager, Structural Technology & Prototyping

Led team of 26 people to develop and implement new technology on Boeing products including rotorcraft, fixed wing aircraft and spacecraft. The multidisciplinary, structural technology team was funded by Rotorcraft Lean Enterprise, Phantom Works, CR&D and Enterprise money. This group has come to be recognized as a leader in advanced analysis, optimization, survivability as well as composite technology including RTM for the entire Boeing Company. Member of Leadership Team under Phantom Works VP for Structural Technology, Prototyping and Quality. Led Rotorcraft Lean Analysis team which has brought Philadelphia recognition as the leading site for Lean Implementation, including developing and implementing an integrated analysis tool suite with an integrated IT/Engineering team.

BOEING AIRCRAFT AND MISSILES, (1997 – 2001)

St. Louis, MO

F-18 E/F Advanced Structural Analysis

Developed advanced non-linear FEA techniques to analyze fuel tank for the F-18 E/F forward fuselage redesign. Utilized ABAQUS to simulate fuel and structure under catapult loads.

Unmanned Combat Air Vehicle (UCAV)

Developed Finite Element model for UCAV and designed wing. Utilized a novel construction method for the wing using Foam Matrix Technology. Performed non-linear analysis on the bomb bay doors.

X-32 Joint Strike Fighter

Part of development team for X-32 Forebody. Trained engineers in use of new tools developed in DMAPS for X-32 analysis. Part was built on schedule and under cost due to the new tools deployed.

MCDONNELL DOUGLAS AEROSPACE (1989-1997)

Design, Producibility and Manufacturing Simulation (DMAPS)

Team leader in charge of training, tool development as well as deployment and support on key projects for Rapid Modeling. Responsibilities included developing integrated tools to go from UG preliminary design through FE models and sizing with optimization routines. Developed training program to teach MD-XX and Apache Helicopter team DMAPS Integrated Analysis including UG, PATRAN, NASTRAN and Proprietary Codes.

Advanced Analysis

Leadership of a group to deploy advanced methods to other McDonnell programs to understand problems that were difficult to solve using traditional methods. Tools deployed included ADVISOR Structural Optimization Code, PATRAN3, ABAQUS Standard and Explicit Finite Element Solver, NASTRAN, Optistruct, and Mechanica (a p-element FE Solver). Numerous deployments conducted by my team and myself included:

- Bird Strike Analysis using ABAQUS Explicit on a Proprietary Program
- MDXX Wing Sizing and Optimization
- Dual Fuel Hypersonic Vehicle Preliminary Design and Optimization

- JAST Aft-center Fuselage Rapid Modeling
- C-17 Cargo Door Redesign Non-Linear Buckling Analysis
- F-18 E/F Landing Gear Door Contact and Material Plasticity Analysis

X-30 National Aerospaceplane

Developed actively cooled panels for classified hypersonic vehicle, including design, analysis, build and test. Optimization of fuselage and tanks utilizing proprietary computer codes developed on the program. Developed Scramjet and fuselage integration for common design.

General Motors Corporation (1984-1987)

Recruited for the College Graduate in Training(CGIT) program. Performed 3-6 month assignments at the Technical Center, Truck & Bus Design Engineering, and Milford and Desert Proving Grounds.

Technology Laboratory for Advanced Composites (1983-1984)

Conducted undergraduate research on single and double overlap composite bonded joints

Personal

Current Active Top Secret Security Clearance. US Citizenship. Given Quality Achievement Award and numerous Quality Pride Awards. Active in Coaching International, National, Masters and Junior Crews including Utah Crew. Enjoy rowing, trekking and bicycling. Married for 34 years and have two children. Son is 31 years old and with undergraduate and graduate degrees from MIT in Aeronautics and Astronautics and presently working in Boeing Research and Technology and is the Boys' Head Rowing Coach at Lakeside School in Seattle, WA. Daughter is 21 years old and attending Yale University.



Board Appointment Approval

Ben McAdams

Salt Lake County Mayor

Erin Litvack

Deputy Mayor, County Services

Rick Graham

Deputy Mayor, Operations

Karen Hale

Deputy Mayor, Community
& External Affairs

Darrin Casper

Deputy Mayor, Finance
& Administration

On the 17th day of July 2018 the Salt Lake County Council consents to the appointment of Mr. Ahsan Iqbal as a member of the *Clark Planetarium Advisory Board*.

His first, three-year term began July 1, 2018 and will end June 30, 2021.

Salt Lake County Council

Aimee Winder Newton
Chair, Salt Lake County Council

Attest:

Sherrie Swensen, County Clerk

Please instruct the Council Clerk to return this form to Anna Vukin-Chow in the Mayor's Office, N2- 100 to process this appointment.