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| **CHI AMY CHOW, PE** | | | | | |
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| **OBJECT IVE** | | | | | |
| Registered engineer seeks career opportunity at Golden Gate Bridge and Highway Transportation District. I joined the District as Transit Asset Management Project Manager with a focus on facility valuation and TAM Rule compliance. My strength lies in utility and paving project delivery and data analysis for asset management and, capital projects. I designed and delivered $6 million turnkey construction of utilities for Kaiser Vallejo Campus. I delivered construction plans for 2 million gallon San Jose International Airport Jet Fuel Facility and created 5-year infrastructure master plan for Alameda Golf Course on Naval Air Station. I am active in the transportation field a member of SWT and served on San Francisco Transportation Authority Citizen Advisory Committee. | | | | | |
| **EDUCATION AND LICENSE** | | | | | |
| * Master of Engineering in Civil Engineering, University of California, Berkeley, CA. Graduated 06/93 * Bachelor of Arts in Architecture, University of California, Berkeley, CA. Graduated 06/88 * Professional Engineers License, State of California, C 59427 Licensed 07/99 * Professional Engineers License, State of Alaska, AELC10216 Licensed 08/00 | | | | | |
| **EMPLOYMENT HISTORY**  **Golden Gate Bridge Highway & Transportation District** 6/17/2017 — Present  *San Francisco, California*   * Seek compliance for transit asset management regulations. Monitor and maintain multi-year compliance objectives. * Work with federal and regional agencies on Districts’ State of Good Repair backlog and forecast funding needs for capital projects. * Develop public information on the asset management program - write news bulletin, generate google earth maps, facility webinars on topics related to TAM. * Support District staff with data reports for audits and National Transit Database. * Attend national and regional meetings to research and adopt best practices for asset management. * Assist Capital and Grants team with longterm capital improvement program, grant applications, and business data analysis.   **City and County of San Francisco, Public Works** 3/28/2016 —6/12/2017  *San Francisco, California*   * Utilized Envista and Enterprise Microsoft Project Management for coordination and tracking of project expenditures and schedules. * Prepared preliminary design using GIS data, as-built, MUNSYS, hydraulic model, and CCTV videos. * Reviewed design calculations, and plans using AutoCAD Civil/Map, INFOWORKS, and software tools in HydroCALC. * Prepared construction plans, specifications, list of materials, cost estimates and provided construction support. * Attended project meetings, maintained verbally and written communications for project development. | | | | | |
| **Nebraska Department of Roads** | 8/22/2012 — 3/19/2016 | | | | |
| *Lincoln, Nebraska*   * Supervised operators of high speed pavement profilers to collect 10,000 centerline mile of performance data each year. Managed procurement contract for and acceptance testing of $1.4M automated data collection vehicles. Collected, quality assured and analyzed approximately eight terabytes of pavement condition data each week. | | | | | |
| * Processed automated cracking and sensor data such as faulting, rutting, international roughness index for the state highway system. Processed and published the video log of state highways for use by engineers and maintenance operations. * Analyzed pavement data and published annual performance measure reports. The performance measures and deterioration model applies GASB34 valuations and supports annual CAFR. * Forecasts 20 years funding needs and assists with capital project selection using the Pavement Optimization Program. | | | | | |
| **MACTEC Engineering and Consulting** | 8/13/2007 — 10/31/2008 | | | | |
| *Beltsville, Maryland*   * Implemented Street Saver, web-based Pavement Management System for Howard County, Maryland. * Worked on Pavement Management Data Warehouse in the areas of software documentation and pavement condition maps for Maryland Highway Administration. | | | | | |
| **MACTEC Engineering and Consulting** | | | 6/26/2000 — 11/5/2004 | |
| *Oakland, California & Anchorage, Alaska*   * Kaiser Hospital Campus Expansion, Vallejo, California: Completed utility infrastructure plan and designed utility relocation of sanitary sewer, storm drain, and fire and domestic water lines for a new parking structure. Provided permitting and construction engineering support for $6.2 million construction contract. * Alameda Point Golf Course, Alameda County, California: Developed grading and drainage preliminary design from golf architect's conceptual model. Provided utility master plan of storm, sanitary, water, irrigation, electricity, gas, and telecom utilities. * Pavement management and engineering at various locations: Forensic Analysis of rubberized chip seal for the City of Pleasant Hill, the Parking lot at San Rafael Corporate Center, Shadeland Drive at the City of Walnut Creek. * Pavement Technical Assistance Program 2000 to 2004 assisted El Cerrito, Milpitas, Millbrae, City and County of San Francisco with Metropolitan Transportation Commission's pavement management system. Assisted City of Pacifica and Danville with integration of pavement management system and geographic information system (GIS). * Alaska General Aviation Airports: Wrote presentation paper on 48 general aviation airports with Alaska Department of Transportation and Public Facilities for presentation at Transportation Research Board, January 2001. | | | | |
| **City of San Jose, Airport Master Plan Division** | | | 5/1/1999 — 5/1/2000 | |
| *San Jose International Airport, California*   * Assisted airport planner and environmental manager with the development of 2-million gallon jet fuel facility. Reviewed consultant's facility design. Coordinated permits for site development, fire protection, hazmat storage for compliance with California Environmental Quality Act and National Environmental Policy Act. * Supported airport engineers with the development of Westside parking lot, 10,000 rental car garage and other master plan projects and completed the engineering training program at the material testing lab and land surveyor division. | | | | |
| **City and County of San Francisco, Department of Public Works** | | | 1/8/1996 — 5/1/1999 | |
| *San Francisco, California*   * Administered $350,000 staff budget for the pavement management program. * Supported Pavement Manager with utility clearance and selection of paving candidates. Created maps, reports, and maintained the database for prioritization of paving candidates. Assisted Project Manager with contract paving totaling $14 million annually. Worked in the field with BSSR paving operation to identify 400 blocks for the mill and fill projects each year. | | | |  |
| * Supported Geographic Information System (GIS) program with a collection of street names and geometric field data. Managed pavement database and created maps for 5-year paving projects and utility excavations for construction coordination. * Served Committee for Utility Liaison on Construction and Other Projects (CULCOP) and published monthly reports, maps for citywide excavation activities. Facilitated monthly meetings with city agencies and public utilities. Responded to public inquiries, presented at monthly neighborhood meetings, and developed a fact sheet on the annual paving program. * Prepared studies for city attorney office in support of city ordinances. The ordinances include implementing a utility fee for pavement damage and accepting streets for city maintenance. | | | | |
| **Metropolitan Transportation Commission** | | | 5/1/1993 — 1/8/1996 | | |
| *Oakland, California*   * Developed annual work programs for pavement management staff. Administered the $250,000 consultant budget and contracts for the Bay Area Pavement Management Program. * Pavement Management System (PMS) County Coordinator for San Mateo, Sonoma, Solano, and Santa Clara counties with the implementation of software and provided technical support. Assisted local agencies to translate prioritized projects into capital improvement programs and developed funding options such as special assessment districts, county sales taxes, and federally funded projects. * Facilitated computer user training, pavement Technology Transfer seminars, and PMS user meetings. | | | | | |
| SOFTWARE AND DATA SCIENCE SK ILL S | | | | | |
| |  |  |  | | --- | --- | --- | | AutoCAD | ArcGIS | Google Earth Pro | | Microsoft suite, Project, Visio, (beginner BI) | Acrobat Pro 11 | Leaflet | | IBM DB2 | MS Access | Posgress/SQLlite, MongoDB | | Python | JavaScript | HTML | | SAS | MATLAB | R Programming | | | | | | |
| PUBLI CA TIONS | | | | | |
| * Chow, C. A., R. Scott Gartin, and Hannele Zubeck. “Alaska Airport Pavement Management System.” 80th Transportation Research Board, January 2001, Washington D. C. (presentation only) * Chow, C. A., O. Pendelton, V. B. Troyan, “Quantifying Damage from Utility Cuts in Asphalt Pavement Using San Francisco’s Pavement Management Data.” 78th Transportation Research Board, January 1999, Washington D. C. * Chow, C. A., “New Technology for an Old City: San Francisco’s Pavement Management & Mapping System.” 1st Asia Pacific Conference on Transportation and Environment, May 1998, Singapore. * Chow, C. A., L. Wang, “San Francisco’s Pavement Management System.” 3rd International Conference on Road & Airfield Pavement Technology, April 1998, Beijing, P. R. China. * Chow, C. A., “Pavement Management Systems for Local Agencies.” 48th University of California Transportation Symposium with Institute of Transportation Engineers and American Public Works Association, October 1996. (presentation only) * Chow, C. A., “A Decade of Experience Developing Pavement Management Systems in the Bay Area.” Proceedings of American Society of Civil Engineers’ Third Computer Applications Conference, June 1996. * Chow, C. A., “Elements of a Successful Pavement Management System.” Proceedings of the Fifth National Transportation Planning Methods Application Conference, April 1995. | | | | | |

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