

# Christopher Fabbri, EIT

Associate Engineer/UAS Pilot



Michael Love & Associates

Hydrologic Solutions

## CONTACT INFORMATION

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## EDUCATION

B.S. 2020 Environmental  
Resources Engineering  
Cal Poly Humboldt

## PROFESSIONAL REGISTRATIONS

California EIT 170467  
FAA Remote Pilot Certificate  
4572463

## AREAS OF PRACTICE

- Stream and Estuarine Restoration Design
- Large Wood Structure Design
- Water Quality and Salinity Monitoring
- Hydrologic Analyses
- 1D & 2D Hydraulic Modeling
- Civil 3D CAD design
- RTK/Total Station Surveys
- Autodesk ReCap, Cloud Compare Software
- Structure-From-Motion
- Trimble X7 LiDAR Scanning/TBC
- GeoSLAM Handheld LiDAR Surveys/Post-Processing
- LSPIV Velocity Mapping
- QGIS-R/Python Coding

## EXPERIENCE

Christopher is a California-registered Engineer-in-Training who specializes in monitoring, survey, and design for stream and river restoration projects to benefit salmonid habitat. He has worked extensively in both freshwater and estuarine systems on small to landscape-scale projects. His specialties include remote data collection including obtaining geo-referenced aerial photography and photogrammetry using an unmanned aerial system (UAS), developing point clouds and digital elevation models (DEM) using a range of software, preparing large-scale 2D hydraulic models and developing designs based on these surfaces.

### Eel River Estuary Preserve (Carlotta, CA)

Performed ground-based RTK-GNSS survey and UAS flight with ground control to generate a georeferenced aerial photograph, point cloud, and DEM of a dune overwash area on Centerville Beach.

**Client:** GHD/HCRCO

**Completed:** 2024

### Jameson Creek Fish Passage Assessment (Carlotta, CA)

Evaluated fish passage conditions in constructed roughened channel using GeoSLAM LiDAR survey and creating a DEM using Cloud-Compare and Autodesk Recap. Collected channel surface velocities using Large Scale Particle Image Velocimetry (LSPIV) processed using the RIVER. Validated LSPIV results and calculated flow data using a USGS Price Pygmy velocity meter.

**Client:** City of Fortuna

**Completed:** 2022

### Big Chico Canyon Survey (Chico, CA)

Performed field-run and remotely-collected topographic survey data collection of a deep canyon with excessively sized boulders. Operated a UAV to obtain geo-rectified aerial photos and associated point cloud. Performed LiDAR surveys using Trimble X7 stationary LIDAR Scanner to map overhangs and sieves between boulders not captured in aerial photogrammetry. Processed point clouds and created DEM using the Survey/Mapping module in Trimble Business Center.

**Client:** California Trout

**Completed:** 2024

### Highway 101 Tide Gate Monitoring (Arcata, CA)

Installed, monitored, maintained and analyzed water level, temperature, and salinity values of 53 simultaneously deployed loggers to evaluate the effects of new tide gates that allow a muted tide into the tidal channel network south of Arcata. Collected data using Onset pressure transducers, conductivity/salinity, and dissolved oxygen loggers. Collected stratified spot readings of water temperature, dissolved oxygen and salinity using a handheld YSI meter.

**Client:** Caltrans/Cal Poly Humboldt

**Completed:** 2020

### Wood Creek III: Off Channel Rearing Habitat (Eureka, CA)

Used tidal gaging data to compute tidal prism volume and designed a network of over 5,000 feet of tidal slough channel with planting hummocks to support a native Sitka spruce riparian area. Prepared concept through final design plans.

**Client:** Buckeye Conservancy

**Completed:** Construction 2025

