

# Jacob Newman

Pasadena, CA

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## Education:

### University of California, Davis

Bachelor of Science Double Major: Civil Engineering and Environmental Engineering

Expected June 2019

Overall GPA: 3.93/4.00

**Relevant Coursework:**     Hydraulics, Wastewater Treatment Design, Aquatic Chemistry, Water Quality Analysis, Hydrology, Technical Writing

## Experience:

**Sep 2018 - Present**     **Undergraduate Research Assistant**, UC Davis, Davis, CA

- Measures field wastewater samples for dissolved oxygen and nitrate content
- Develops water quality monitoring procedures for experimental and teaching purposes using Arduino technology
- Performs nutrient analysis using a flow injection analyzer
- Prepares standard solutions and samples for the assessment of pesticide removal in a woodchip bioreactor

**Jun 2018 - Sep 2018**     **Engineering Intern**, Sanitation Districts of LA County, Whittier, CA

- Evaluated feasibility of replacing and maintaining five process air compressors, preventing a three-month project delay
- Reviewed and organized contractor submittals in Primavera Unifier
- Prepared project schedules and memoranda
- Drafted a subsurface utilities map to determine the path of a proposed biogas pipeline

## Volunteering:

**Oct 2016 - Present**     **Treasurer**, Challah for Hunger at Davis, Davis, CA

- Manages a dozen volunteers in a professional-grade kitchen
- Creates weekly financial reports and oversees club's donations

## Associations:

**Jun 2017 - Present**     **Treasurer**, American Water Works Association, Davis, CA

- Plans engineering-related field trips and informational panels

**Oct 2016 - Present**     **President**, Chi Epsilon Civil Engineering Honor Society, Davis, CA

- Arranges professional development and social events for members

**Oct 2016 - Apr 2018**     **Member**, American Society of Civil Engineers, Davis, CA

- Built two 3D models of wastewater treatment systems for a collegiate competition using SolidWorks

**Software:**     Microsoft Office, Bluebeam Revu, Primavera Unifier, SolidWorks, ArcGIS, AutoCAD, MATLAB, Python, Arduino

**Hobbies:**     Cooking, classic movies, musical theater, Disney history, city planning