

Oscar Duran

(925) 214-1569 • oduran.oscar@gmail.com
1248 Alpine Rd APT 5 • Walnut Creek, CA 94596

QUALIFICATIONS

- Management of LiDAR and Photogrammetric projects in Canada and USA: Fixed wing, Rotary wing, UAV.
- Proficient in Imagery and LiDAR data Pre-Processing and Post-Processing:
 - ❖ Photogrammetric Aerotriangulation: INPHO, Correlator3D, Pix4D.
 - ❖ Ground and Aerial Trajectories: Inertial Explorer, GrafNav, POSPac MMS, IPAS.
 - ❖ Laser Point Cloud: RIEGL, Leica processing suites.
 - ❖ Geodetic Control Networks: GrafNet, Leica Infinity.
 - ❖ Orthophoto and Map Products: OrthoMaster, OrthoVista, Global Mapper, QGIS, MicroStation, Terrasolid, AutoCAD Civil 3D, TopoDOT.
- 8 years of experience installing, configuring, operating, and troubleshooting LiDAR and Photogrammetric sensors (Riegl VQ 1560i, VUX-1UAV. Leica ALS60, ALS70. Optech ALTM 3100, Galaxy), IMUs, GNSS receivers, gyro stabilizers, total stations.
- Motivated to maintain client satisfaction (excellent interpersonal skills).
- Languages: English, Spanish, and Portuguese.

PROFESSIONAL LICENSES

Professional Engineer – Alberta, Canada (# 123925)

Certified Photogrammetrist – USA (#1675)

Project Management Professional – USA (# 3022635)

Licensed Surveyor in Training – California, USA (# 8874)

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WORK EXPERIENCE

Towill, Inc.

Senior Geomatics Analyst

Concord, CA USA

Oct 2021 - Present

- Aerotriangulate Film and Digital Imagery.
- Orthophoto production.
- Manage Stereo Compilation projects.
- Use of Terrestrial and Aerial LiDAR data to create geospatial products, including InRoads DTMs, AutoCAD Civil 3D surfaces, and multiple DEM formats.
- Digital volumetric computations.

Towill, Inc.

Geomatics Analyst

Concord, CA USA

Feb 2019 - Oct 2021

- Generate Cross Sections from digital models for Engineering monitoring projects.
- Prepare Horizontal and Vertical Accuracy Reports for LiDAR point clouds and Orthophotos.
- Use GIS and CAD modeling software to interpret, edit, digitize and format processed data for mapping project objectives.
- CAD Drafting for Conventional Surveying projects.

RME Geomatics

Crew Chief

Calgary, AB Canada

Jul 2018 – Dec 2018

- Lead Calgary's office for Western Canada projects.
- Coordinate Aerial Survey projects with clients.
- Project Planning: Flight planning, Control Networks, Logistics.
- Lead Aerial Photogrammetric and LiDAR Surveys: Fixed wing, Rotary wing, UAV.
- Processing of LiDAR point clouds, Control Networks adjustments.
- Photogrammetric Aerotriangulation.

Airborne Imaging, Inc.

LiDAR Project Manager

Calgary, AB Canada

Apr 2016 – Jul 2018

- Responsible for all aspects of acquisition phase of Airborne LiDAR and Photogrammetric surveys.

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- Supervise and allocate field resources daily, including personnel (Geomatics Field Technicians, Pilots, AMEs & Sub-Contractors).
- Preliminary processing of LiDAR, GNSS and INS data collected to ensure completeness and accuracy before crew demobilization, including:
 - ❖ Processing of flight trajectories.
 - ❖ Generation of LiDAR point cloud data.
 - ❖ Sensor Calibration.
- Design, process and implement Geodetic Control Networks.
- Process GNSS Ground Truth data to ensure Airborne data meets contractual requirements.
- Design and modify flight plans for LiDAR projects.
- Preparation of daily project statistical reports for the Field Operations Manager.
- Maintain communications with local client representatives and government regulatory agencies, including promoting the company to the various agencies.

Airborne Imaging, Inc.

Geomatics Field Technician

Calgary, AB Canada

May 2013 – Apr 2016

- LiDAR trajectory and point cloud data processing.
- Processing of GNSS Static and Kinematic Aerial/Ground data.
- Install, operate, and troubleshoot LiDAR Airborne sensors.
- Responsible for directing Aerial Survey missions, including:
 - ❖ Adjusting and Interpreting LiDAR, GNSS, INS real-time data feeds.
 - ❖ Monitoring atmospheric conditions for optimal data collection.
 - ❖ Monitoring aircraft's navigation parameters.
- Required to spend as many as 12 hrs/day in an aircraft performing Aerial Surveys.
- Responsible for collecting GNSS Ground Truth kinematic data.
- Responsible for the deployment of GNSS base stations for static data collection in support of Aerial Surveys.
- Develop web applications to improve field operations reporting.

EDUCATION

Geomatics Engineering

Doctor of Philosophy

Purdue University

Aug 2022 – Present

Geomatics Engineering

Master of Science (Distinction with Honor)

California State University, Fresno

2020 – 2022

Geomatics Engineering
Bachelor of Science

University of Calgary
2010 – 2014

ACADEMIC

A Comparative Accuracy Analysis of 3D Model Programs – A Case Study of SfM and Photogrammetry Based Programs

Published Paper
SaLIS, 2022

ASPRS 2021 Annual Conference

Presenter

42nd Annual Virtual Central California Research Symposium 2021

Presenter

35th CSU Systemwide Student Research Competition 2021

Presenter

60th Annual Geomatics Engineering Conference 2021

Presenter

HONORS & AWARDS

Professor Fareed W. and Rosemarie B. Nader Geomatics Award

Oct 2024

Awarded by Lyles School of Civil and Construction Engineering at Purdue University

Independent Research Scholarship

Sep 2024

Awarded by Lyles School of Civil and Construction Engineering at Purdue University. The scholarship supports graduate students who plan to engage in a small research project

Outstanding Service Award

Feb 2024

Awarded by the American Society for Photogrammetry and Remote Sensing for work with the reorganization of the Student Advisory Council, presented at Geo Week 2024

24 Young Geospatial Professionals to Watch in 2024

Dec 2023

xyHt Magazine distinction of "young geospatial professionals who are becoming movers and shakers in the industry"

Love of Learning Award

Aug 2022

Awarded by the Honor Society of Phi Kappa Phi in recognition of dedication to professional and academic advancement.

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California Transportation Foundation Graduate Scholarship Awarded by the California Transportation Foundation, presented at the 2022 Transportation Forum	May 2022
American Association for Geodetic Surveying Graduate Fellowship	Apr 2022
Leica Geosystems Sponsored Award Award presented at the Western Regional Survey Conference in recognition of outstanding volunteer service	Apr 2022
California Land Surveyors Association San Francisco Chapter Scholarship, Orange County Chapter Past Presidents Scholarship, San Diego Chapter Jas Arnold Memorial Scholarship, Central Coast Cliff Lewis Memorial Scholarship 4 Scholarships awarded by the California Land Surveyors Association	Feb 2022
Francis H. Moffitt Memorial Scholarship Awarded by the American Society for Photogrammetry and Remote Sensing	Jan 2022
American Council of Engineering Companies SJVC Scholarship Awarded by the American Council of Engineering Companies	Dec 2021
League of California Surveying Organizations Scholarship Awarded by the League of California Surveying Organizations	Aug 2021
Pacific Southwest Region Scholarship Awarded by the American Society for Photogrammetry and Remote Sensing Pacific Southwest Region	Jul 2021
Slavoj Scholarship Awarded by California State University, Fresno. "The Slavoj Scholarship is awarded based on educational promise"	Jun 2021
Robert & Norma Craig Graduate Scholarship Awarded by California State University, Fresno. "The Robert & Norma Craig Graduate Scholarship recognizes the efforts and activities students are putting towards research in their given field"	May 2021

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35th CSU Systemwide Student Research Competition 2021

May 2021

Honored as one of the 6 students to represent California State University, Fresno at the 35th CSU Systemwide Student Research Competition. The selection was based on a video presentation of the research, available here: https://www.youtube.com/watch?v=6LiD_PDDdEU

Robert E. Altenhofen Memorial Scholarship

Feb 2021

Awarded by the American Society for Photogrammetry and Remote Sensing. "The purpose of the Robert E. Altenhofen Memorial Scholarship is to encourage and commend college students who display exceptional interest and ability in the theoretical aspects of Photogrammetry"

Education Foundation Scholarship

Feb 2021

Awarded by the California Land Surveyors Association

James E. Adams Memorial Scholarship

Feb 2021

Awarded by the California Land Surveyors Association

Geomatics Engineering Foundation Award

Jan 2021

Funded Research Award

Sep 2020

Awarded by the Lyles College of Engineering at California State University, Fresno

Chairman's Award

Nov 2017

Awarded by Airborne Imaging, Inc. for "exceeding the highest standards of employee performance"

CIVIC/VOLUNTEER EXPERIENCE

Purdue Graduate Student Government

Grant Reviewer

Purdue University

Sep 2024 – Present

American Society for Photogrammetry and Remote Sensing – Pacific Southwest Region

Director

Nationwide (United States)

Jan 2023 – Present

American Society for Photogrammetry and Remote Sensing – Student Advisory Council

Chair

Nationwide (United States)

Oct 2022 – Present

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Western Regional Survey Conference

Volunteer

Regional US Conference

Mar 30 - Apr 2, 2022

**Geo Week/American Society for Photogrammetry and
Remote Sensing Annual Conference**

Volunteer

International Conference

Feb 6 – 8, 2022

**American Society for Photogrammetry and
Remote Sensing – Student Advisory Council**

Vice Chair

Nationwide (United States)

Aug 2021 – Oct 2022

**American Society for Photogrammetry and
Remote Sensing – Student Advisory Council**

Education & Professional Networking Chair

Nationwide (United States)

Mar 2021 – Oct 2021

Monumental Toy Drive

Outreach Director

Concord, CA USA

Dec 2019 – Present

Samaritan's Purse International Relief

Calgary Flood Disaster Relief Volunteer

Calgary, AB Canada

Jun 2013 – Jul 2013

Geomatics Engineering Students Society

Career Day Commissioner

Calgary, AB Canada

Sep 2012 – Apr 2013

The Mustard Seed

Poverty Alleviation Volunteer

Calgary, AB Canada

Mar 2013 – May 2013