

Omar Montes González
Ensenada, B.C. México
August 15, 1988
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Work experience

Grupo Consultor Acuícola

Project manager

2013 - 2017

Design of aquaculture farms and recirculation systems, including supervision of installation of aquaculture systems, construction supervision and design of seawater intakes (including analysis of tides, waves, currents, coastal transport, pumps and pressure networks), commissioning of aquaculture laboratories (including calibration of aquaculture systems, air networks, oxygen networks, air conditioning and emergency plants), handling (transport, cleaning, feeding) and maintenance of organisms, laboratory analysis (samples of seawater, organisms, handling of spectrophotometer, centrifuge, analytical balances, chemicals from samples of organisms and water), demanding night and day field work including transfer of personnel and material to areas of difficult access.

Elaborated and developed projects:

- *Centro Interdisciplinario de Ciencias Marinas, La Paz*

Design and installation of 3 hydraulic and electrical recirculation systems for the maintenance of red snapper, broodstock and fry.

- *Secretaría de Pesca y Acuicultura de Baja California (Mexicali, Baja California)*

Design of a quarantine unit for shrimp larvae, a receiving unit for various producers.

- *Sociedad Cooperativa Progreso de Producción Pesquera, S.C. de R.L. (La Bocana, Baja California Sur)*

Design, construction, and commissioning of seawater intake for an open hydraulic system for abalone farming.

- *Earth Ocean Farms (La Paz, Baja California Sur)*

Design, construction, and commissioning of hydraulic recirculation systems for the cultivation of Totoaba.

- *Ocean Baja Labs / Baja Seas – Aquaculture (Ejido Eréndira, Baja California)*

Design, construction and commissioning of systems for the laboratory containing recirculation systems for live food, maintenance of mackerel and Hatchery / seawater intake for the production laboratory.

- *Industrializadora portuaria del Sauzal (Ensenada, Baja California)*

Executive project for the expansion of a wastewater treatment system.

- *Centro de Investigación en Alimentación y Desarrollo (Hermosillo, Sonora)*

Design of hydraulic recirculation systems for laboratory.

- Vamoza Noa Noa, S.A. de C.V. (Santa Rosalita, Baja California)
Prospecting trip for seawater intake location, analysis of water samples and site granulometry

- *Baja Marine Foods (Ensenada, Baja California)*
Design of a water treatment system for sardine washing.

- *Participation in various projects related to engineering and design of recirculation systems / Civil works designs.*

Asesoría Integral Ambiental

External consultant 2011-2012

Responsible for sampling in oceanographic cruises, measurement of oceanographic variables, measurement of water quality (dissolved oxygen, chlorophylls, nutrients), consultations in development and construction of equipment for aquaculture. Monitoring of variables in tuna cages and nearby areas.

Libra Ingenieros Civiles

Oceanographic Advisor 2015

Design of seawater intakes, measurement of oceanographic variables, preparation of documents for environmental impact manifest, collection of oceanographic information, participation in the water plant desalination project in Isla Cedros and San Quintín, B.C.

Pacifico Aquaculture

Hatchery Technician 2015

Rearing, cleaning, transfer of juveniles and striped bass brood, systems review, water quality review, feeding.

Centro de Investigación Científica y de Educación Superior de Ensenada

Technical training 2013

Maintenance of broodstock and juveniles (feeding, cleaning, and recirculation systems), production of live food for larval culture of marine fish.

Education

Universidad Autónoma de Baja California 2017-2020

Complete Certificate of studies: Average 98/100 *anticipated completion date 2020*

PhD Thesis project at Phytoplankton Ecology team: Effects of light intensity and nutrients on growth, photosynthetic parameters, pigments and light absorption coefficient of *Tetraselmis suecica*, *Thalassiosira pseudonana* and *Lingulodinium polyedra*.

Centro de Investigación Científica y de Educación Superior de Ensenada

M.Sc. in Aquaculture 2011-2014

Thesis project: Effect of light intensity and air injection rate on growth and productivity of the microalgae *Nannochloropsis* sp., grown in a flat bioreactor.

Universidad Autónoma de Baja California 2006-2010
Bachelor in Oceanography with Merit Award
Thesis with Honorable Mention: Modelación de la dispersión de contaminantes en la boca del estero de Urías, Mazatlán, Sinaloa (2010).

High School

Instituto Tecnológico y de Estudios Superiores de Monterrey 2003-2006
Bilingual High School Certificate

Middle school

Salesiano Angela Segovia de Serrano 2002-2003
Ruth Dowell Middle School 2000-2001

Extracurricular activities

English language: 80%
Accredited National Military Service
Hydroponics Course (2009)
Embryology of Marine Organisms – Instituto de Investigaciones Oceanológicas 2009
Live food production for Totoaba at Universidad Autónoma de Baja California 2010

Software date analysis: MATLAB, Ocean Data View, Surfer, Excel, Word, PowerPoint, Sketch up, Statistica.

SPORT ACTIVITIES

Weightlifting 2015-2020
Swimming 2013-2015
Trekking 2015
road cycling 2012
mixed martial arts 2009
American FootBall 2003-2005
Borregos Salvajes at Instituto Tecnológico y de Estudios Superiores de Monterrey.
Scuba Diving certification Certification 2004
Open Water Diver SSI - # 295L040072LA