KAREN CASEY

Aurora, CO | (303) 246-4150 | kcaseypb@gmail.com | https://www.linkedin.com/in/karen-casey-3bb32bba/ | https://foodsciencebykc.com/

Qualifications Summary

Patient-focused, driven, and highly adaptable individual with a strong passion for promoting optimal health and well-being through effective nutrition counseling and education. Trustworthy & exceptional leader, well-prepared to excel in a challenging role in the health care industry.

Capable of conducting detailed dietary assessments and creating personalized meal plans tailored to individual needs. Ability to coordinate nutrition programs, ensuring adherence to industry standards and regulations. Reliable and detail-oriented with a sense of diligence and aptitude to effectively multi-task assignments with stringent deadlines. Passion for providing personalized services to facilitate positive changes that enables optimal health and wellness. Outstanding interpersonal skills, establishing rapport and building strong relationships with clients and colleagues. Creative problem-solving skills that help patients adapt to complex dietary restrictions. Passionate about continuously expanding knowledge and staying up-to-date with the latest advancements in the field of nutrition and dietetics.

CORE PROFICIENCIES

Enteral Formula Administration| Specialized Diets Planning | New Treatment Research | Nutritional Assessment | Medical Nutrition Therapy |

Team Leadership & Mentoring | Problem Solving | R&D | Program/Project Management | Budget & Cost Controlling

ACADEMIC EXPERIENCE

University of Northern Colorado, Greeley, CO   **2015 to 2022**
Student / Mentor (Volunteer)- Nutrition Dietetic Technician

Completed DPD program. Developed solid understanding of therapeutic nutrition principles and dietary habits by studying a dietetics program. Shadowed registered dietician at Rocky Mountain Family Practice clinic, acquiring skills in providing one-on-one nutritional counseling to clients, maintaining patient records, as well as creating nutritious meal plans in-line with special dietary needs. Completed coursework in Biochemistry, Human Metabolism, Organic Chemistry, Medical Nutrition Therapy and Nutrition Counseling.

- Leveraged superior leadership traits, while performing duties as a mentor for PKU adults returning to diet.
- Built a solid foundation in the field by undertaking various courses and serving as a volunteer in a clinic, resulting in earning credential as Registered Nutrition and Diet Technician.
- Secured 4.0 GPA in all UNC coursework through hard work and dedication while continuing to work full time in the Aerospace industry.

EXPERIENCE HIGHLIGHTS

Raytheon Intelligence & Space, Aurora, CO   **2022 to Present**
Technical Director- Space Systems Business Unit

Provide technical oversight, while spearheading R&D activities and satellite ground system projects. Deliver valuable direction to the team on data processing and mission management as a subject matter expert, ensuring successful launches. Contribute as a published author in the fields of discrete mathematics and combinatorics and human user interface, emphasizing expertise in space satellite ground systems. Formulate strategic roadmaps and technology development plans to drive further organization's success. Create and implement technical marketing strategies to increase project awareness in different trade shows and support print/video communications.

- Successfully managed annual R&D budget of $12M, ensuring accurate distribution of resources for timely completion of projects.
- Cultivated valuable vendor partnerships to bolster a ground systems portfolio, featuring prominent projects such as the James Webb Space Telescope Flight Operations System, GPS Operational Control Segment, and Advanced Weather Interactive Processing Systems.
- Recognized for growing a program from $30K to $450M in sales.
- Assumed key leadership positions in successful growth campaigns and proposals spanning a remarkable range from $1M to over $1B.

Raytheon Intelligence & Space, Aurora, CO   **2014 to 2021**
Chief Engineer- FORGE Mission Data Processing Application Framework

Spearheaded internal/external technical initiatives, throughout a comprehensive 4-year campaign aimed at conceiving and securing the $250M Air Force Space and Missile Systems program, called ''Mission Data Processing Application Framework''. Implemented a fully automated operational framework, leveraging DevSecOps pipeline to facilitate hosting of commercial applications within a year.

- Supervised and led a team of 45 engineers spread across various geographical locations in the U.S.

Additional Experience:

- **Mission System Engineer | Raytheon Intelligence & Space, 2012 to 2014** - *Acted as representative on behalf of customers', communicating their requirements in all aspects of new business initiatives for Civil and DoD Space business. Created customer-driven solutions, considering factors such as cost, technical feasibility, schedule, and acquisition model, to foster business expansion.*

- **Strategy/New Business Lead, Engineering | Raytheon Intelligence & Space, 2008 to 2012;** *Oversaw technical aspects, discriminators, and engineering costs for all competitive pursuits in the Space Systems division. Developed technical win strategies for Space Ground system initiatives across various customer organizations, resulting in bookings exceeding $40M in 2011. Guided Chief Engineers on capture related topics, including bid development, intellectual property protection/patent disclosures, ITAR/Export regulations, and proposal development. Led technical roadmap development and engineering product initiatives in Space Mission Management (Equinox®) and Command and Control (Eclipse®) technologies.*

- **GOES-R Technical Volume Lead | Raytheon Intelligence & Space, 2007 to 2009;** *Led $850M Geostationary Operational Environmental Satellite R Series (GOES-R) Ground System Technical Volume team, overseeing the entire lifecycle from initiation and training to proposal development, color team review, and addressing customer inquiries. Contributed to the development and dissemination of proposal best practices by transitioning knowledge from the GOES-R team to various subsequent proposals, facilitating cross Product Line implementation.*

Career Note:

- **Program Manager**, **Space Systems,** Raytheon Intelligence & Space
- **Mission Management Technical Lead**, **Space Systems,** Raytheon Intelligence & Space
- **Systems Engineer**, **National Systems,** Raytheon Intelligence & Space
- **Technical Writer and Software Developer Support**- Quark, Inc.
- **Adjunct Instructor**- University of Colorado at Denver, Red Rocks Community College
- **Volunteer, Community Fund Raiser**, Intermountain PKU and Allied Disorders, National PKU Alliance and PKU News
- **Campus Manager/Board Member**- Montana State University
- **Student Board Member**- University of Colorado of Denver

EDUCATION & CREDENTIALS

Registered Nutrition and Dietetic Technician (NDTR) & DPD, University of Northern Colorado

M.S. Applied Mathematics and Engineering, University of Colorado

B.S. Mathematics, minor Counseling, Metropolitan State College of Denver

Certified Level IV Program Manager ($200M Annually)

Certified Capture Manager ($100M per Bid)

Certified Six Sigma Expert

Affiliations & Clearance

Engineering **Fellow**

CBS Girls in Science **Mentor**

Peer Mentor, National PKU Alliance

Active DoD Top Secret Security Clearance with Polygraph

Member, Academy of Nutrition and Dietetics

Awards & Public Speaking

Invited Speaker, Canadian Vanguard Defense Department Conference (2023)

Media Interviews: NYTimes, Fox News, Defense Daily, CBS Channel 4 (2023, 2022)

Transformative Business Partner Award, Red Hat (2020)

Keynote Speaker & Best Presentation, Ground System Architecture Working Group (2017)

Aurora Peak Performer Nominee (2004, 2003)

Peak Performer at Raytheon (2001)

National Finalist Society of Women Engineers, Distinguished Engineer (2000)