

CV/Resume

ETHELBERT OPARA, PH.D.

Adjunct Assistant Professor, Dept. of Civil & Environmental Engineering

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PROFESSIONAL EXPERIENCE

Over 20 years of combined technical and senior management experiences in engineering and construction industry, project management and consulting services. Currently the Managing Director of AGC National Corporation, an Engineering, Construction, Management and Consulting Services company based in Houston, Texas and operates in more than four states. Worked for TTI, TEES, TAMU, KSDOT, KCC-ATU, Transtecs Corporation, Harris County METRO and AGC National Corporation in non-teaching and real-world industry positions in my fields of expertise and education. I have served as Head Engineer, Director of Operations in charge of Business Development, Cost Estimating, Proposals, Contracts and Operations and led the proposal teams and four teaming projects with outside corporations to win over \$250M in competitive government and private agency construction contracts and other capital projects.

AREAS OF EXPERTISE

■ **Transportation and Construction Engineering Services:** planning and design; heavy highway engineering and paving, transportation and traffic engineering and safety, bridge and airfield construction and paving; technical studies, special projects management, intelligent transportation services (ITS), transportation planning; public transportation management, MPO administration, air quality & TIP funding; foundations and underground utility construction; construction operations; Construction engineering, highway & bridge construction, interchanges, construction management & safety, project management, and building maintenance services (Plumbing, HVAC, Carpentry/Roofing & Electrician); commercial construction including: concrete, masonry, retaining walls,, pavers, irrigation, drainage, landscape, pools, plants; industrial; residential building construction; consulting and professional development services expert; project funding; cost estimating & project controls; managing construction operations, scheduling & mobilization, construction business development, proposal research and writing, presentation; evaluation; contract awards and negotiations; contracts administration and contracting services; contracts and specifications; business services, business and project development.

■ **Contracts Administration:** Post & Pre-Award Services: Worked for KDOT, Transtecs Corporation, Harris County METRO and AGC National Corporation responsible for Contracts Administration Services that included business development services, major capital projects like highways, bridges, airport runways, office and public buildings, multi-year transportation contract services that worth over \$200M at METRO, research and funding services. Responsible for RFP, selecting the best proposal for each research project category, drawing research project award contracts between KDOT and hundreds of sponsored research teams led by their PIs every year for 5 years. Bidding, contract negotiation, drawing and signing of contracts relating to all aspects of the organization's services including labor, materials,

supplies, equipment, premises, vehicles, manufacturing and distribution, warranty, inspection, QA/QC, cost estimating, scheduling, project procurement, mobilization, subcontractor contracts, payment and performance bonding contracts, change orders, punch-list and turn-key.

■ **Fundraising & Capital Campaigns, Chamber of Commerce & Economic Development Council Services:** High-energy, savvy, visionary and ethical leader in these services. Have over 25 years of combined experience in these areas from the low-level volunteer and door-knocking member to executive management experience responsible for identifying major prospects, setting budgets and schedules for major projects, developing winning marketing and investment collaboration strategies, and attracting impactful investors that create jobs and help develop vibrant cities.

■ **Experienced Researcher, Innovation, Research Administrator & Economic Development:** research administrative services, sponsored programs, technical and management proposal team leader, compliance, policy, ethical implications and oversight for responsible conduct of research according to federal, state, and University regulations; experience focusing on increasing research activities, discoveries, revenue, technology transfer, funding, collaborative initiatives including international research partnerships, patents, research products commercialization, innovation, facilitating and accelerating the movement of research and technology from the university to the marketplace; research investments and investment return impacts, job creation and economic development.

TEACHING, RESEARCH AND HIGHER EDUCATION ADMINISTRATION EXPERIENCE

- Adjunct Prof. of Civil & Environ. Engineering & Architecture, PVAMU, 2010, 2017, 2018-2019
- Trained and Professional K8-12 Math & Science Teacher, Spring IDS, 2008 & 2009
- Adjunct Prof. of Computer Science & Technology, DeVry Univ., Houston, Beltway 8 Campus, 2008
- Adjunct Professor of Engineering and Construction, University of Houston, Main Campus, 2007
- Sponsored Research and Contracts Supervisor and Grad. Research/Dissertation Advisor at KU and KSU through projects funded by my employer. Supervised two Ph.D. dissertation research, several masters' research and thesis, professional projects and undergrad capstone projects - 1999-2003
- State & Industry Research Administrator, Proposal & Funding Manager(KDOT)-1999-2003
- Development Administrator, Assistant Prof, Associate Professor & Dept. Head, Kansas Community College/ATU; Lots of experience in program management, services (advising, tutoring, mentoring students and faculty, supervising support staff, outreach, admissions, enrollment, totally taking good care of students to improve retention, progression and graduation rates) 2001-07
- A trained Research Technician, TA, RA, Admin Mgr., Instructor & Research Associate. I was involved in over 30 projects sponsored by TXDOT, FHWA, HUD and other state highway agencies that brought over \$2.5M to TAMU, \$3M to Texas Transportation Institute (TTI) and \$2.2M to Texas Engineering Experiment Station (TEES) - 1986-98
- Experienced Supervisor, Manager and Administrator familiar with University Policies and Procedures Manual (PPM) and Manual of Administrative Policies and Procedures (MAPP).

PROFESSIONAL PUBLICATION

- Published several peer-reviewed papers in journals, conference proceedings, and presented research work at TRB, ASCE Conference in Dallas, TX, EPA Environmental Justice Conference in Kansas City MO, Committee and Sponsorship meetings. I helped secure over funding from KSDOT, TXDOT, NSF, DHS, FHWA, FTA, ALCOA, and others for research and educational innovations.
- Experience and ability to develop and teach a course in Research Methods, Funding & Administration to help continue research, innovation and economic development services; train and supervise research assistants, associates, engineers, scientists and others engaged in productive funded research, thesis and dissertation writing, presentation and defense; academic, technical and management proposals; bidding and negotiations; and writing a textbook titled “Research Methods, Funding & Administration” that will be edited and reviewed by peers.

ADDITIONAL TRAINING, PROFESSIONAL DEVELOPMENT AND MICROCOMPUTER SKILLS

Completed and received professional certificates in Interpersonal Communication Skills and Leadership; Coaching for Peak Performance; Delegation by Design; Performance Planning and Evaluation; Communication Skills for Managers/Supervisors; Positive Discipline; Job Training and Supervision; Project Management, Budgeting and Project Funding; Total Quality Management, Q/A& Q/C; Retail Business Management; Cost Estimating and Construction Management; Real Estate Sales, Management and Property Appraisals; Law Enforcement, Parking & Compliance Services; Engineering Research & Proposal Writing and Presentation; ISTE, TEA-21, EPA & NEPA in Transportation; Documenting NEPA and Transportation Decision Making, Environmental Justice; MPO Administration. Have working knowledge of MS Access, Excel, Word and PowerPoint. Also have working knowledge of microcomputer skills used in Engineering, Construction, Pavement Design and Analysis, Transportation, Traffic Safety Research, Designs and Management Services including Developer 2000R2.1 (Query Builder); Micro-Station; CAD; HCS, Traffic Simulation, TSIS/CORSIM, ITRAF, TRAFVU, TransCAD, GNE, ArchView, Mapitude and GIS; Quatro Pro, CMS and Primavera (P3, P6 and Vu 360).

EDUCATION:

- PH.D in Engineering, Civil/specializing in Transportation, Pavement Design and Safety, Texas A&M University, College Station, Texas, December, 1998.
- Dissertation Title: A Comprehensive Method to Improve Highway Traffic Safety.
- Extra 25 graduate semester credit hours in General Business Administration, Texas A&M University, College Station, Texas.
- M.S. in Construction Engineering & Project Management, Texas A&M University, C S, Texas
- Thesis Title: A Quantitative Model to Predict the Cost of Quality Nonconformance in the Construction Industry.
- Completed 18 Graduate Credit Hours for a Graduate Certificate in Safety, Texas A&M University.
- B.S. in Civil Engineering Science, specializing in Transportation & Construction Engineering & Project Management, Texas Southern University, Houston, Texas.
- Certificates/Licenses in Teaching/Pedagogy, Math K7-12,
- Certificate: EPA & NEPA in Transportation

HONORS AND SCHOLARSHIP

Dean's List: For 6 Semesters; Membership certificates from student and professional organizations recognizing dedication and contributions.

Academic Scholarship from the Federal Ministry of Education.

MEMBERSHIP AND CONTRIBUTIONS TO: ASCE, ACCE, ITE, TRB, and AGC.