

**NAME**

Mohammed Salih El-Faki Mozib

**DATE OF BIRTH**

June 23, 1955

**CITIZENSHIP**

Yemeni

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**SCIENTIFIC TITLE****Professor:** Agricultural Engineering, Machine Vision.**PRESENT POSITION****Head,** Advanced Precision Technologies for Date Palm Research Program, Date Palm Research Center of Excellence (DPRC), King Faisal University (KFU), Al-Ahsa, Kingdom of Saudi Arabia (KSA)**Temporary Graduate Faculty Member of Kansas State University,** Biological and Agricultural Engineering Department, Faculty of Engineering, KSU, Manhattan, KS, USA.**DPRC Research Activities:**

- Prepared four research proposals: (i) Internal Thermal and Chemical Characteristics of Date Palm Infested by Red Palm Weevil *Rhynchophorus ferrugineus* Olivier (160,000 SR- approved, implementation is ongoing), (ii) Developing a Multi-sensor System for Early Detection of Date Palm Infestation by Red Palm Weevil, *Rhynchophorus ferrugineus* (3,630,165.75 SR – pending approval), (iii) Automatic Assessment of Biological Control Effectiveness of *Trichogramma* Against *Ephesia cautella* Using Machine Vision Under Laboratory Conditions (649,200 SR- pending approval), and (iv) Design and manufacture of date palm ladder systems with manual and automated lifting mechanisms (570,000 SR –pending approval).
- Wrote a work paper entitled: “Date Palm Research Center of Excellence: A National Experience in Producing Scientific Research”, as a contribution to the: “Second Forum of Societal Partnership in Scientific Research”, dedicate for: “The Industry of Scientific Research in Saudi Arabia”, Islamic University of Imam Mohammed Bin Saud, during: 22-23/6/1432 (26-27/4/2011), in: Riyadh, KSA.
- Established a machine vision laboratory.

**DPRC Administrative Activities:**

- Revised the Draft of the DPRC 10-year Strategic Plan (SP) and prepared a list of issues and points need to be taken into consideration by the SP team when preparing the final version, and later revised the final version .
- Participated in writing the DPRC final report submitted to the Ministry of Higher Education by writing the sections related to changes in the objectives and operational plan, project highest impact outputs, impact evidences, and lessons learned.
- Established research collaboration with international recognized universities in USA, Germany, and Taiwan.
- Reviewed the 2010 External Evaluation Mission report and summarized the main findings and recommendations.
- Prepared TORs for several specialists posts (e.g. machine vision, economic and marketing ..ect).
- Assessed the implementation progress of the strategic plan of the DPRC at the outputs level submitted to the Ministry of Higher Education, Kingdom of Saudi Arabia.
- Prepared the annual 2012 achievement report of the DPRC.

- Organize and chair the DPRC weekly seminar program.
- Head of the DPRC Strategic Plan Committee.
- Head of the DPRC Advanced Precision Technologies for Date Palm Research Program.
- Secretary of the Research and Graduate Follow up Committee.

## EDUCATION

**Ph.D.** 1996, **Machine Vision**, Biological and Agricultural Engineering, Faculty of Engineering, Kansas State University, USA

**M.Sc.** 1993, **Power and Machinery**, Biological and Agricultural Engineering, Faculty of Engineering, Kansas State University, USA

**B.Sc.** 1979, **Agricultural Engineering**, Faculty of Engineering, Khartoum University, Sudan

**PhD. Dissertation:** Weed Detection Using Color Machine Vision

**M.Sc. Thesis:** Compaction from Pneumatic Tire and Rubber Belt Track Tractors

## SKILLS

### Experience in:

- Preparing research project proposals,
- Date Palm and Dates research related to automated control of processes,
- Machine vision and its applications in biological and agricultural engineering,
- Precision agriculture,
- Designing, planning, implementing and monitoring and evaluating (M&E) higher education projects,
- Managing poverty alleviation programs,
- Overseeing M&E of basic education projects, child development projects, and community development projects,
- Implementing participatory approaches in community-based development,
- Providing rural and agricultural credit,
- Statistical analysis,
- Teaching and training engineering courses.

### Computer skills:

- Image processing softwares (*Matlab, Adobe Photoshop*, developing own image processing algorithms),
- Microsoft Office (*Word, Excel, Power Point*),
- Statistical software (*SPSS, SAS*),
- Programming (*C++ language*),
- Internet usage.

## CURRENT RESEARCH INTERESTS

- Pattern recognition (*in digital images*),
- Process automation using machine vision,
- Quality control,
- Early detection of insects and infestations using multi-sensor fusion,
- Water conservation in arid regions,
- Solar energy applications,
- Design of equipment for serving date palm trees.

## LANGUAGES

**Arabic:** Native speaker

**English:** Reading (*very good*); Writing (*very good*); Speaking (*very good*)

## TRAINING COURSES/WORKSHOPS DEVELOPED AND EXECUTED

1. Monitoring and Evaluation of development programs/projects.
2. Introduction to image processing for agricultural applications.

## CONSULTANCY WORK

- Project Preparation Facility (PPF) Consultant**, Higher Education Project Phase II (HEPII) - World Bank, Ministry of Higher Education and Scientific Research (MOHESR), Sana'a
- Implementation/M&E Specialist and Deputy to the Project Coordinator**, Higher Education Project Phase I (HEPI) - World Bank-MOHESR, Sana'a

- iii. **Monitoring and Evaluation Expert**, The Yemeni American Project for Basic Education Development (EQUIP1) - USAID, Sana'a
- iv. **Machine Vision Expert**, Establishing a Research Center for Sensing Technology and Machine Vision – University of Science and Technology- Sana'a, conducting research, and supervising graduate students research in image processing related topics.

## EMPLOYMENT HISTORY

May 2010 – Present	<b>Head</b> , Advanced Precision Technologies for Date Palm Research Program, DPRC, King Faisal University, KSA.
Dec. 2009- April 2010	<b>Professor</b> , Agricultural Engineering Department, Faculty of Agriculture, Sana'a University, Yemen.
Jul. 2008-Feb. 2009	<b>Project Preparation Facility Consultant</b> , Higher Education Project (HEPII), World Bank- MOHESR, Sana'a, Yemen
Feb. 2008-Jun. 2008	<b>Deputy Project Coordinator and M&amp;E/Implementation Specialist</b> , HEPI, World Bank-MOHESR, Sana'a, Yemen
Apr. 2005-Dec. 2006	<b>Monitoring and Evaluation Advisor</b> , EQUIP1-Yemen, USAID, Sana'a, Yemen
Jul. 2004-Mar. 2005	<b>Monitoring and Evaluation Officer</b> , Child Development Project - Higher Council for Motherhood and Childhood - Sana'a, Yemen.
Dec. 2002-Nov. 2009	<b>Associate Professor</b> , Agricultural Engineering Department, Faculty of Agriculture, Sana'a University, Yemen.
Feb. 2001-Oct. 2002	<b>Regional Team Leader</b> , UNDP, Poverty Alleviation and Employment Generation Program, Community-Based Regional Development Program, Bani Saad, AlMuhweet, Yemen.
Dec 1996- Nov. 2002	<b>Assistant Professor</b> , Agricultural Engineering Department, Faculty of Agriculture, Sana'a University, Yemen.
1991-1996	<b>Graduate Assistant</b> , Biological and Agricultural Engineering Department, Faculty of Engineering, Kansas State University, Manhattan, Kansas, USA
1990-1991	<b>Lecturer</b> , Agricultural Engineering Department, Sana'a University, Yemen.
1987-1990	<b>Deputy Manager</b> , Commercial Department, Cooperative and Agricultural Credit Bank (CACB), Sana'a, Yemen.
1986-1987	<b>Head</b> , Studies Section, Credit Department, CACB, Sana'a, Yemen.
1979-1986	<b>Credit Officer</b> , Credit Department, CACB, Sana'a, Yemen.

## PROFESSIONAL EXPERIENCE

### 1. In the area of Project Preparation and Design

#### 1.1 Project Preparation Facility (PPF) Consultant, HEPII-World Bank, MOHESR, Sana'a (Jul. 2008-Feb. 2009),

- Reviewed International Contractors' Final Reports of HEPI, analyzed differences between contracts' TORs and actual achievements, recommended due payments accordingly, and carried out all correspondence,
- Arranged the stakeholder workshop for the Policy Forum of the new project,
- As a member of the PPF Yemeni team, I participated with the World Bank visiting missions in accomplishing the following:
  - Discussing the Borrower's Implementation Completion Report (ICR) for the HEP I, prepared by me on June 30, and the implications for design of the new project,
  - Making arrangements for administration of a beneficiary survey for the ICR,
  - Discussing the priorities, the structure of components and the preparation requirements for the new project,

- Discussing and agreeing on staffing requirements and arrangements for project preparation,
- Firming up plans for an October 2008 mission to include a stakeholder workshop for the ICR and Policy Forum for the proposed new project,
- Clarifying the policy basis for HEPII through assessment of the current status of implementation of the HE reform strategy and promote coordination with activities of other donors,
- Advancing the detailed design of the project and definition of preparation requirements through discussion with government and university representatives,
- Ensuring adequate capacity and arrangements in the MOHESR for administration of the preparation grant,
- Agreeing on TORs and procurement plans for the agreed preparation activities to be financed by the grant.

## **2. In the area of Management and Monitoring and Evaluation**

### **2.1 Deputy Project Coordinator and M&E/Implementation Specialist, Higher Education Project Phase I, HEPI, World Bank-(MOHESR), Sana'a (Feb. -Jun. 2008),**

#### **I. Project Management**

- Supported the PCU to ensure effective implementation of the remaining activities of the IDA-financed Higher Education Project in compliance with the procedures described in the Credit Agreement, and IDA-procurement and disbursement guidelines
- Served as a focal point for IDA for any communication on project-related issues. In particular, prepared and signed all project-related correspondence to IDA
- Supervised the Financial Manager and Procurement Officer and ensured that procurement and disbursement plans were updated regularly
- Analyzed differences between planned and actual disbursement/procurement progress
- Identified and reported all project-related issues to the Vice Minister, PCU team and IDA
- Ensured timely provision of project documents/reports to IDA
- Prepared the Borrower Implementation Completion Report (ICR) at the end of project life

#### **II. Monitoring and Evaluation:**

- Established and implemented a monitoring and evaluation tool for the project performance indicators (development objective and output of the project)
- Conducted periodic reviews of project components under implementation
- Maintained complete files of documentation on project activities
- Produced accumulative integrated progress reports on project implementation, based on data provided by the Financial Manager (FMR), Procurement Officer (Procurement Schedule), and Higher Education institutions
- Analyzed differences between planned and actual progress of project implementation

### **2.2 Program M&E Advisor, EQUIP1-Yemen USAID, Sana'a (Apr. 2005-Dec. 2006),**

- Worked with the Chief of Party (COP) and component teams to design, direct, monitor, and evaluate all program supported activities
- Ensured appropriate and proven monitoring and evaluation mechanisms were built into all workplans and that information was properly collected, analyzed and reported
- Designed data collection instruments
- Collected baseline and monitoring data
- Maintained working professional relationships with USAID's and other donors projects
- Coordinated the dissemination of project progress and lessons learned with program partners
- Ensured that the monitoring results were reviewed regularly with the program staff to ensure that the program had the requisite data for decision making and improved program design and implementation
- Represented EQUIP1-Yemen in First (2005) and Second (2006) Joint Annual Reviews (JARs) of the Implementation of the National Basic Education Development Strategy
- Prepared program quarterly progress reports

### **2.3 Program M&E Officer, Child Development Program (CDP-UNICEF), Higher Council of Motherhood and Childhood, Sana'a (Jul. 2004 –Mar. 2005),**

#### **Key tasks and responsibilities:**

- Maintained a database of indicators on the situation of children and women in the areas covered by the CDP
- Designed data collection methodologies related to components of the CDP funded jointly by IDA and UNICEF and implemented by UNICEF.
- Revised the CDP integrated M&E plan
- Assisted the project coordination unit of the CDP in preparing work plans and progress reports
- Analysed and evaluated data to assess program performance regarding achievement of planned outputs and outcomes and recommend necessary corrective actions
- Trained the CDP staff on M&E by organizing and executing training workshops.
- Provided field technical assistance to program staff on data collection and analysis.

- Assisted the Information/Communication section of the project in disseminating relevant statistical information on children and women related to targeted areas.

### 3. In the area of Community Development – Poverty Alleviation

#### 3.1 Regional Team Leader, Poverty Alleviation and Employment Generation Program, Community-Based Regional Development Program, UNDP, Bani Saad-ALMuhweet, ( Feb. 2001 – Oct. 2002),

- Coordinated the various components of a participatory development project in poor communities, providing overall guidance and administrative backstopping to a team composed of group facilitators and technical experts.
- Coordinated and facilitated the implementation of a variety of technical and social activities, and most particularly investment and loan operations carried out by Community Development Organizations (CDOs).
- Established operational relationships with the relevant NGOs, governmental, and international programs with similar objectives.
- Established subcontracts with governmental and non-governmental agencies to execute works or provide services, and supervise all the implementation processes.
- Ensured procurement of goods and services in coordination with the Procurement Coordinator at headquarter level.
- Coordinated the planning and implementation of training for capacity building, demonstration and adaptive replication activities in close cooperation with grassroots organizations and the central support team.
- Served as the M&E Focal Point.
- Monitored implementation of program activities and resulted outputs within the targeted area.
- Prepared regular quarterly and annual progress reports.

### 4. In the area of University Education

#### 4.1 Professor, Sana'a University (1990-present),

##### 4.1.1 Teaching activities

Taught the following *undergraduate* courses:

- Image Processing – Hydraulics (design of open channels) - Engineering Thermodynamics - Mechanics - Statistics - Ordinary Differential Equations - Linear Algebra - Numerical Analysis - Engineering Applications - Engineering Analysis - Machine Components Design

Taught the following *graduate* courses:

- Measurement Systems - Advance Power & Machinery - Partial Differential Equations - Design of Irrigation System Introduction to C Language - Scientific English - Advanced Soil Physics - Computer Applications - Advanced C Language - Soil Mechanics - Field Engineering & Soil Conservation -

##### 4.1.2 Research activities

- Investigated the difference in soil compaction caused by tractors equipped with pneumatic tires and those equipped with rubber belt tracks,
- Employed machine vision to detect weed in wheat and soybean fields for automatic selective herbicide application to reduce environmental pollution - Utilized RGB color information in color digital images to develop algorithms for pattern recognition - Used statistical and neural network approaches for image classification - Studied the effects of soil moisture content, illumination, and spatial resolution of the imaging system on accuracy of weed detection algorithms,
- Developed an algorithm for an improved computation of object skeletons,
- Developed an automated signature verification algorithm using image processing,
- Developed a grape drier using solar energy based on energy collecting surfaces technique,
- Supervised the development of an automated banknote counting system based on digital images,
- Developed algorithms to obtain leaf signature of whole and occluded leaves for automatic plant identification.
- Developed an algorithm to grade raisin using non-contact machine vision techniques.
- Developed an algorithm to grade Yemeni smoked cheese using nondestructive machine vision techniques.
- Developed a simple classifier for off-line evaluation of manual dates sorting in Saudi dates factories as a means of quality control and checking on human graders' performance.
- Carried out a study aiming at reviewing the experience of the DPRC in implementing indigenization approach for scientific research production to improve date palm productivity and develop dates industry in the Kingdom of Saudi Arabia.
- Assessed the Thermal and chemical characteristics of date palm infested by red palm weevil as a prerequisite satge for developing a non-destructive multi-sensor fusion system for early detection of the insect inside the tree.
- Developed image processing algorithms for automatic assessment of biological control effectiveness of the egg parasitoid *Trichogramma bourarachae* against *Cadra cautella*.

##### 4.1.3 Consultancy activities

Performed the tasks of establishing a research center for sensing and machine vision technology in the University of Science and Technology (a private university), which included the following:

- Preparing a detailed project proposal,
- Identifying materials and electronic equipment required and specifying their specifications,
- Shopping through the Internet for best deals in terms of qualities and prices and carrying all correspondences to get quotations,
- Analyzing quotations and deciding on the best company to secure electronics,
- Getting purchase approval,
- Following up issuance of insurance and bank transactions documents,
- Assembling and operating the machine vision system.

#### 4.1.4 Administrative and supervision activities

##### Committees:

1. Member: Faculty Library Committee,
2. Member: Faculty Student Affairs Committee,
3. Member: Faculty Graduate Committee,
4. Member Agricultural Engineering Department Council.

#### 4.1.5 Master Thesis

- i. **Chairman:** The examination committee of the graduate student Ali Abdul Kareem Al-Jendary for his M. Sc. degree in Irrigation and Drainage Engineering titled: Improvement of Water Use Efficiency and Potato Production Under Different Levels of Drip Deficit Irrigation. 2009. Faculty of Agriculture, Sana'a University.
- ii. **Supervisor and Chairman:** The examination committee of the graduate student Abdul Gadir A. Al-Abadi for his M. Sc. degree in Computer Science titled: Banknote Counting Using Digital Image Processing. 2006. Faculty of Science and Engineering, University of Science and Technology.
- iii. **Supervisor and Chairman:** The examination committee of the graduate student Omar O. Alamoudi for his M. Sc. degree in Computer Science titled: Signature Verification. 2003. Faculty of Science and Engineering, University of Science and Technology.
- iv. **Member:** The examination committee of the graduate student Abdul Kareem Al\_Mojahid for his M. Sc. degree in Irrigation and Drainage Engineering titled: Assessment of Most Important Variables Related to Drip Irrigation Networks. 2001. Faculty of Agriculture, Sana'a University
- v. **Member:** The examination committee of the graduate student Mohammed Sabbih Al-Tamimi for his M. Sc. degree in Computer Science titled: Statistical Classifier of Arabic Documents. 2000. Faculty of Science and Engineering, University of Science and Technology.

## 5. In the area of Development Banking

### 5.1 Deputy Manager of Commercial Department; Head of Credit Studies Section; Credit Officer, Cooperative and Agricultural Credit Bank (CACB), Sana'a ( 1979-1990),

- Carried out **feasibility studies** for agricultural projects. Specified loan amount and farmer's cost-share. Appraised loans that exceed branch authorities,
- Carried out a study (to fulfill an M.Sc. degree requirements) that highlighted the role of credit in promoting agricultural mechanization in Yemen. The focus was on machinery credit. The study concentrated on the following:
  - Identifying the potential for agricultural mechanization
  - Identifying the role of credit for mechanization
  - Identifying the role of CACB in the development of the agricultural sector by introducing farm mechanization
  - Evaluating the existing system of CACB, and performance with respect to medium term credit for mechanization
  - Pinpointing the major constraints encountered by the CACB in the course of advancing medium term loans for mechanization,
- Reviewed loan applications, and forwarded appraisals with recommendations to the CACB Central Credit Committee for approval/rejection,
- Set specifications (suitable for Yemeni farming) of irrigation units, tractors, and implements to be purchased by the CACB. Prepared **bid technical documents**. Participated in **bid evaluation** and recommendation of award of contracts. Set Plans for the distribution of machinery and agricultural inputs through the CACB branches,
- Monitored execution of machinery loans at the national level,
- Participated in preparing feasibility studies and plans to introduce agricultural mechanization in Mareb and Al-Jawf governorates.

## MEMBERSHIP IN TECHNICAL AND PROFESSIONAL SOCIETIES & ACTIVITIES IN CIVIC OR PUBLIC AFFAIRS

- **Member of the ASAE (since 1993), The American Society for Agricultural and Biological Engineers (ASABE, USA).**

## INTERNATIONAL CONFERENCES, SYMPOSIUMS, AND WORKSHOPS

- Attended the Annual International Meeting of the ASABE , Tennessee, USA. 1993,
- Attended the Annual International Meeting of the ASABE, Chicago, USA. 1995,

- Attended the British Council regional stocktaking workshop in quality assurance of higher education in the Gulf States, Yemen, and Iraq - May 11-12, 2008, Manama, Bahrain.

## PEER REVIEWED TECHNICAL PUBLICATIONS

**El-Faki, M.S.**, H. A. El-Shafie, and M. R. Al-Hajhoj. 2016. Potentials for early detection of red palm weevil (Coleoptera: Curculionidae)- infested date palm (Arecaceae) using temperature differentials. *The Canadian Entomologist*, Vol. 148(2): 239-245. (DOI: <http://dx.doi.org/10.4039/tce.2015.51>).

**El-Faki, M.S.**, and H. A. El-Shafie. 2013. Effect of red palm weevil, *rhynchophorus ferrugineus* (Olivier) infestation on temperature profiles of date palm tree. *Journal of Entomology and Nematology*, Vol. 5(6): 77-83. DOI: 10.5897/JEN2013.0081.

**El-Faki, M.S.**, Mutahar, S. Shaiban, and Abdul Rageeb T. Abdul Rageeb. 2010. Grading of Yemeni smoked cheese using nondestructive machine vision techniques. *Yemeni Journal of Biological Sciences*, Vol. 5(2): xx-yy. (Published).

**El-Faki, M.S.**, and Omer Alamoody. 2010. Offline Signature Verification Using Machine Vision. *Journal of Science and Technology*, Vol. 14 (2): xx-xx (Published).

**El-Faki, M.S.**, and A. H. Al-Washali 2009. Design of a simple solar dryer for drying agricultural products. *Annals Of Agric. Sci., Benha Uni.*, Vol. 47(3): 1-14.

**El-Faki, M.S.**, 2009. Automatic plant identification by signature of a partially occluded leaf. *Annals Of Agric. Sci., Moshtahar, Egypt*, Vol. 47(3): 47-55.

**El-Faki, M.S.**, 2009. Grading of Yemeni raisin (*Razigi CV.*) using non-contact machine vision techniques. *Fayoum J. Agric. Res. &Dev.*, Vol. 23 (1): 86-93.

**El-Faki, M.S.**, 2007. Signature of Plant Leaf. *Annals of Agric. Sci., Moshtohar, Egypt*, Vol. 45 (4): 1351-1362.

Zhang, N., N. Wang, **M. El-Faki**, C. Chaisattapagon, and G. Fan. 2006. Weed identification using imaging technology and spectroscopy. *Environmental Control in Biology*, 44(3), 161-171.

**El-Faki, M.S.**, 2002. Color Discrimination of Biological Material. *Egypt Journal of Applied Science*, Vol. 17 (7): 451-466.

**El-Faki, M.S.**, 2000. Improved Computation of Object Skeleton. *Journal of Science and Technology*, Vol. 5 (2): 27-33.

**El-Faki, M.S.**, N.Zhang, and D.E.Peterson, 2000. Weed Detection Using Color Machine Vision. *Transactions of the ASABE* Vol. 43 (6): 1969-1978.

**El-Faki, M.S.**, N.Zhang, and D.E.Peterson, 2000. Factors Affecting Color-Based Weed Detection. *Transactions of the ASABE* Vol. 43 (4): 1001-1009.

**El-Faki, M.S.**, 1998. Variable Rate Herbicide Applicators. *Journal of Science and Technology*, Vol. 3 (1): 13-22.

Zhang, N., Y. Yang, and **M.S. El-Faki**, 1994. Neural Network Application in Weed Identification Using Color Digital Images. *ASABE International Winter Meeting*, ASABE Paper No. 94-3511.

## CONSULTANCY PUBLICATIONS/REPORTS

**El-Faki, M.S.**, and S.M. Al-Eid, 2011. Date Palm Research Center of Excellence: A National Experience in Producing Scientific Research. A work paper prepared as a contribution to the: "Second Forum of Societal Partnership in Scientific Research", dedicated for: "The Industry of Scientific Research in Saudi Arabia", Islamic University of Imam Mohammed Bin Saud, during: 22-23/6/1432 (26-27/4/2011), in: Riyadh, KSA.

**El-Faki, M.S.**, 2008. Implementation Completion Report (ICR). Final Borrower Report for Evaluating Achievements, Performance and Learned Lessons from IDA-Funded Higher Education Development Project – Credit N0. 3674-Yem. Report submitted by the Ministry of Higher Education and Scientific Research (MHESR) to the World Bank on June, 30, 2008.

**El-Faki, M.S.**, 2008. Impact of Project IDA-Funded Training Programs Implemented Under HEPI. Terms of Reference (TOR) for consultancy services offered to the Higher Education Development Project. The TOR submitted to the Ministry of Higher Education and Scientific Research (MHESR) and to the World Bank.

**El-Faki, M.S.**, 2006. Basic Education Baseline Survey for EQUIP1-Yemen Targeted Schools and Communities. A field study. Report submitted to AED, AIR, and USAID.

**El-Faki, M.S.**, 2005. Situation Analysis Related to Basic Education in Areas Targeted by EQUIP1-Yemen. Inceptive Report Submitted to Academy for Educational Development (AED), American Institute for Research (AIR), and USAID.

**El-Faki, M.S.**, 2005. Outputs Assessment of Child Development Project (CDP) Implemented by UNICEF in Lahj Governorate. A Performance Review. Report submitted to CDP.

### **UNIVERSITY AND COMMUNITY SERVICE**

- i. Reviewed many technical papers for several national and international journals including: Transactions of the ASABE, *Yemeni Journal of Biological Sciences*, the *Agency of Agricultural Research Journal*, and *Sana'a University Journal for Science & Technology*.
- ii. Prepared project proposal for performance evaluation of Environment Impact Assessment Program in Yemen and extracting learned lessons for designing a new one.
- iii. Reviewed a technical paper for the *Agency of Agricultural Research Journal* titled: Influence of proper tire inflation pressures on fuel consumption and field capacity.
- iv. Reviewed a technical paper for the *Yemeni Journal of Biological Sciences* titled: Inherited experience for improving mechanical peeling efficiency of Yemeni coffee.
- v. Reviewed a technical paper for the *Sana'a University Journal for Science & Technology* titled: Development of grains separating and grading machine.
- vi. Prepared a research proposal for Ministry of Education titled: Assessment of potentials for employing females in basic education teaching in Yemen (*Terms of Reference*).
- vii. Helped in reducing *Maternal Mortality* by facilitating the support and organization of a one-year training session to qualify twenty lady health workers (midwives) from twenty different Uzolas (subdistricts) within Bani Saad district in Al-Muhweet governorate. This training was sponsored by the Ministry of Public Health and Population. After training completion each health worker went back to her village to provide health care to women and children in her community especially the expectants and infants.