

PATHWAYS of Young Professionals in the IAS:

Explanation: The Pathways articles from IAS Magazine can serve as an e-mentoring tool by illustrating how some IAS young professionals are finding their path to career satisfaction. Perhaps one of these stories can inspire or encourage you in your own career journey:

Story Nbr.	Name of Person	Their Career Path	Link to Pathways Article in Xplore Archives:	Key Words contained in this Article:
1	Clifton Oertli	Consulting Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7450303	Consulting engineer; field experience; writing skills; MBA; web development; electronic communications; people connections; industry inflection point.
2	Srikanth Vesudevan Pillai	Academia	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7486222	Passion for teaching; professor; electric machines; leaving comfort zone; people networking; IAS student branch chapters (SBC).
3	Rachel Bugaris	Product Dev. Engineer; R&D Engr.	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7536260	Product engineer; product patent; research engineer; electrical safety; arc flash; IAS technical committee; collaboration; teamwork; technical writing;
4	Megha Tak	Product Dev. Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7587478	Electronics engineer; humanitarian medical projects; signal processing; product development; product management; collaborative leadership style.
5	Jeremy Smith	Applications Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7778332	Solar house project; power systems engineering; power systems studies; field engineering service; collaboration; people networking; IAS technical committees; work-study co-op education program.
6	Tom E. Johnson	Applic Engr; Marketing & Sales Engr; Entrepreneur	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7847535	Data centers; applications engineering; marketing; technical selling; sales engineer; manufacturers' representative; entrepreneur; customer problem solving.
7	Eric Rau	Power Systems	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7944728	Study abroad; power systems engineering; arc flash energy calculations, modeling and simulation; professional network connections; technical conferences; Fundamentals of

		Application Engineer		Engineering (FE) examination; professional engineering (PE) license; IAS young engineer travel grant.
8	Lucia Pia Torres	Energy Service Company Engineer	https://ieeexplore.ieee.org/stamp/stamp.js?p?tp=&arnumber=8007341	Internships; field engineer; project manager; instrumentation & controls engineer; energy services company (ESCO); WIE; STEM; project economics and business justification; public speaking; robotics for kids.
9	Mohit Setia	Product Dev. Engineer	https://ieeexplore.ieee.org/stamp/stamp.js?p?tp=&arnumber=8063528	Medical electronics; humanitarian; image processing; computer vision; voice activation; smart home; writing software code.
10	David Mazur	Applications Engineer; Systems Architect	https://ieeexplore.ieee.org/stamp/stamp.js?p?tp=&arnumber=8186402	Electric machines; mining and petrochemical industry applications; technical sales engineer; paradigm shift; product development R&D; industry standards working groups; Industrial Internet of Things (IIOT); Industry 4.0; industrial power distribution; IAS technical committees; systems architect; effective listener; listen, think and solve.
11	Payman Dehghanian	Academia	https://ieeexplore.ieee.org/stamp/stamp.js?p?tp=&arnumber=8287001	Passion for teaching; professor; research; power blackout; electric outage; power systems engineering; student-led technical conferences.
12	Kent Sayler	Consulting Engineer	https://ieeexplore.ieee.org/stamp/stamp.js?p?tp=&arnumber=8336527	Electrical standards, codes, and recommended practices; consulting engineer; cooperative work-study program; power systems engineering; electrical standards working groups; IAS technical committees.
13	Lesley Arakkal	Electric Utility Engineer	https://ieeexplore.ieee.org/stamp/stamp.js?p?tp=&arnumber=8376047	Electrical distribution network planner; network modeling; electrical infrastructure; power systems studies; load flow; fault analysis; stability; rotational training; WIE.
14	Christa Swafford	Industrial Plant EE and Safety Engr.	https://ieeexplore.ieee.org/stamp/stamp.js?p?tp=&arnumber=8432442	Internships; instrumentation and control systems; chemical manufacturing industry; technical writing; rotational training; electrical safety program; mentors; technical paper co-author; manufacturing plant.

15	Nehad El-Sherif	Product Dev. Engineer; Marketing & Sales Engr; Entrepreneur	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8488695	IAS standards working groups; IAS technical committees; MBA; bridge builder businessman; startup business; mentors, electrical safety; special purpose ground fault circuit interrupter (SPGFCI); R&D; inventor, product patent; marketing & sales.
16	Danny Zepeda	Industrial Plant Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8568999	Petrochemical industry; refinery business; power systems engineering; problem solving; preventative maintenance; trouble shooting; young engineers development; Myron Zucker travel grant.
17	Luigi Parise	Hospital Facility Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8685739	Electric power reliability; electric service continuity; lightning protection system; local electrical code and regulations; international conferences; hospital facility engineering.
18	Emily Held	Industrial Plant Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8732025	Paper mill; mentors; professional engineering license; electrical safety; reliability engineer; internships; Rooks Memorial Grant Fund; Rooks Young Engineering Professional Award.
19	Ana Margarida Trigo	Product Dev. Engineer; Applications Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8796449	Electronics engineering; autonomous vehicle transportation; sensor and control systems; robot; prototype; multimedia; communicate; collaborate; WIE; product development; multi-national company; multi-cultural.
20	Anna Floyd	Human Performance and Electrical Safety Specialist	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8863702	Electrical safety; human performance factors; educator; psychology; human behavior choices; lifesaving benefit; humanistic sciences; humanitarian organizations; nonprofit organizations.
21	Manish Verma	Applications Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8929030	Applications engineer; consultant, control engineering; power engineering; motor speed control; internships; coauthor; professional legacy; harmonics; heat dissipation; electromechanical machinery; systems interactions; variable

				frequency drive (VFD); load commutated inverter (LCI); voltage source inverter (VSI).
22	Yanni Zhong	R&D Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8985360	Power electronics; converter design; photovoltaic (PV) systems; wind farms; wind turbines; PhD; R&D; teaching assistance; chapter and membership department (CMD); public speaking; volunteering; knowledge sharing; personal branding.
23	Carson Bates	Consulting Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9061176	Consulting; advancement of knowledge; PhD; power system studies; cable ampacity, arc flash, transient stability, grounding, short circuit, and relay testing; substation commissioning; SCADA.
24	Richard Cselko	Academia	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9113360	Academia; PhD, teaching, collaboration between industry and academia; high-voltage testing; partial discharge; factory acceptance testing; chapter and membership department (CMD); networking; volunteering.
25	Sumit Chhabria	R&D Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9165050	R&D; M.Sc.; all-terrain vehicles (ATVs); software testing; debugging; test jigs; automotive industry; robotics contest; student branch chapter; chapter and membership department (CMD); soft skills; networking; volunteering; leadership.
26	Matt Hussey	Applications Engineer; Product Manager	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9220996	Product management; applications engineering; manufacturing engineering; medium voltage (MV); low voltage (LV); motor control centers (MCCs); molded case circuit breaker (MCCB); electrical safety; Industry 4.0; industrial internet of things (IIoT); networking.
27	Jay Prigmore	Consulting Engineer; Forensic Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9291506	Consulting engineer; forensic engineering; incident investigation; electrical failures; arc-flash analysis; power quality; power system studies; protection coordination; wind turbine; PhD, R&D, manufacturing; product development; mentoring.

28	Nishad Mendis	Consulting Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9347754	Consulting; PhD; renewable energy, battery systems, engineering design; student branch chapter; chapter and membership department (CMD); soft skills; communication skills; networking; volunteering; leadership.
29	Xavier St-Onge	Consulting Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9398298	Consulting; M.Sc.; power electronic converters; renewable energy; wind turbines; solar farms; engineering design; power system design; ground grid design; arc-flash hazard; power quality; voltage stability; networking.
30	Sunny Gaidhu	Applications Engineer; Sales Manager	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9451833	Sales management; applications engineering; manufacturing engineering technologist; online partial discharge; online end-winding vibration monitoring; volunteering; networking.
31	Johanna Castellanos	Field Engineer; Academic Teaching; PhD Candidate	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9512122	Field engineer; M.Sc.; PhD; humanoid robotics; programmable logic controllers (PLCs); oil and gas; project management; renewable energy; microgrids; photovoltaic (PV); energy management; power quality; chapter and membership department (CMD); volunteering; humanitarian activities.
32	Adams Baker	Product Manager; Design Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9569226	Product management; design engineer; product development; sales; masters in engineering management program; medium voltage variable frequency drive (VFD); low-voltage switchgear; IAS technical committees; networking.
33	Zheyu Zhang	Academia; R&D Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9646567	Academia; PhD; M.Sc.; teaching; research and development (R&D); power electronics; wide bandgap devices (WBG); silicon-carbide (SiC) semiconductors; standards; standards development; educational activities; IAS technical committees; volunteering; leadership; networking; IAS Andrew W. Smith outstanding young member achievement award.

34	Yingbei Yao	Dispatch Engineer; Analysis Engineer; Planning Research Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9705250	Planning engineer; M.Sc.; electrical power system; generation, transmission, and distribution of electric power; transmission lines; power plants; power system planning; electricity market; nodal pricing; demand side management; dispatch control centers; IAS executive board; chapter and membership department (CMD); volunteering; CMD student thesis contest; direct communication; work-life balance; professional development.
35	Sidra Malik	Maintenance & Reliability Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9755232	Maintenance and reliability engineer; Study abroad; engineering intern; manufacturing; oil and gas industry; mining; open pit mine; adjustable speed drives; programmable logic controllers (PLC); power distribution systems; motor control center; Myron Zucker travel grant award; volunteering; mentoring; networking; leadership.
36	Xu She	Engineering Manager; R&D Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9797835	PhD; M.Sc.; teaching; internship; research and development (R&D); power electronics; solid-state transformer (SST); ac-ac power converters; renewable energy; energy storage; electrification products; innovation; standards; IAS technical committees; volunteering; mentoring; leadership; networking; section outstanding member in industry award; region 1 industry technological innovation award; IAS Andrew W. Smith outstanding young member achievement award.
37	Radwa Abdalaal	Consulting Engineer; Academic Teaching	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9853527	Consulting; PhD, M.Sc.; academia; teaching; research and development; power system studies; renewable energy; photovoltaic (PV); power quality; lighting loads; light emitting diodes (LEDs); patent; networking; student branch chapter (SBC); chapter and membership department (CMD), women in engineering (WIE); professional development.

38	Zhaohao Ding	Academia	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9920485	Academia; PhD; professor; teaching; academic research; renewable energy; microgrids; demand side resources, electric vehicles; data centers; Industrial & Commercial Power System (I&CPS) Department; Myron Zucker travel award; IAS outstanding young member service award.
39	JiangBiao He	Academia; R&D Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9994269	Academia; PhD; M.Sc.; teaching; research and development (R&D); power electronics; wide bandgap devices (WBG); silicon-carbide (SiC) semiconductors; renewable energy; electric vehicles; uninterruptible power supplies data centers; electric motor drives; switched reluctance motor drives; hybrid-electric aircrafts; standards development; volunteering; networking; leadership; IAS Andrew W. Smith outstanding young member achievement award.
40	Hossam Eldeeb	Motor Control Engineer; Academic Teaching	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10038773	PhD; M.Sc.; rotating rectifiers, automatic voltage regulators; programmable logic controller (PLC); automation; switchgear; power electronics; motor drives; digital signal processing (DSP); energy storage system (ESS); photovoltaic (PV); transportation electrification; electric vehicles (EV); gallium nitride switches (GaN); chapter and membership department (CMD); volunteering; networking; leadership.
41	Guilherme Hübner	Quality Engineer; Automation Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10094260	PhD; M.Sc.; artificial intelligence (AI); programmable logic controller (PLC); human-machine interface (HMI); wind turbines; neural network; unmanned aerial vehicles (UAV); drones; SCADA (supervisory control and data acquisition); automation; signal processing; predictive maintenance; quality control; data processing; image recognition; deep learning; chapter and membership department (CMD); CMD student thesis contest; public speaking; networking; leadership; professional development.

42	Long Zhao	Academia	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10146362	Academia; M.Sc., PhD; professor; teaching; academic research; smart grid, renewable energy, electric vehicle; vehicle to grid (V2G); demand response (DR); internet of things (IoT); power system protection; arc-fault protection; IAS student branch chapter (SBC); networking; Industrial and Commercial Power Systems (I&CPS) Department; Electrical Safety Workshop (ESW).
43	Sara Roggia	R&D Engineer; Design Engineer	https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10207914	M.Sc.; PhD; renewable energy; smart grids; finite element analysis (FEA); machine design; electric motors; aircraft electrification; aviation; electric propulsion system; drives; inverters; volunteering; communication skills, leadership; Energy Conversion Congress and Exposition (ECCE); women in engineering (WIE); technical committees; Industrial Power Conversion Department (IPCD).