Competency	Essex Graduate	Skill	Skill Level	Evidence
- <u>Professional</u>	Literacy, Communication, Language Skills	Express information effectively to technical and non-technical audiences	Proficient	Regularly sought out by clients and peers for this skill.  20 years experience in authoring, presenting and training others in emerging technologies
		Create documents to aid your communication (reports, diagrams, legal descriptions, plans, manuals and charts)	Expert	Present technical papers and participate in technical panels internationally. Author numerous documents annually for clinets and technical standards bodies
	Commercial Awareness	Keep current with tools of the industry, as well as emerging technology  Seek opportunites to improve and share knowledge of tools and technology that may improve productivity  Participate in scientific and professional organisations  Emphasise quality, customer satisfaction and fair application of policies.  Demonstrate familiriaty with codes of	Expert  Expert  Proficient	Internationally recognized thought leader and presenter on emerging technologies within the Transportation space including surface, rail, aviation and maritime for automation, connectivity and cybersecurity.  Responsible, trusted partner to clients to provide future proof designs and strategies for emerging technology and legacy support.  Member, multiple standing committees and working groups for Transportation Research Board, IEEE, SAE et al. Chair of TRB cybersecurity WG.  Often serve as QA/QC manager on large, complex projects. Responsible for client debriefs and remediation within business class.  Lecture on ethics in professional settings as well as
	Subject understanding, research, critical thinking, time management	conduct for the Computing field.  Critically analyse complex ideas in concepts in the field of Computer Science	Proficient Proficient	instructor for ministerial ethics at seminary Regularly called upon to present new or complex technical principles to non-technical clients and decision makers Sought out to lead cross functional teams toward
		Recognise inconsistencies and gaps in information, and search for additional information when needed	Proficient	building big picture startegies and process re- engineering efforts. Ability to recognize what's relevant and streamline efforts.
		Explore complex real-world problems in a Computing context	Expert	Multiple years and projects involving technology research, including as principal investigator. MSc at Essex modules added new aeras to this skill through coding exercises.

Legal and Ethical	Ethical Awareness	Comply with the letter and spirit of		Advise clients on Federal, state and local compliance
		applicable laws	Proficient	issues of law and regulatory standards.
		company, co-worker and customer information	Proficient	Chief privacy officer for USDOT research projects.
Social (inc. Teamwork)	C   L   A	Act in the best interest of the community at		my oocupation. MSc program modules at Essex greatly
		large - Social (Community) Responsibility	Proficient	enhanced this area due to vast diversity within my
	Leadership and Resilience, Time Management	achieve team goals	Proficient	cohort for cybersecurity. One of my project teams
		skills	Proficient	comprised 4 discrete first languages, diverse cultures
				35+ years of advanced leadership training and positions
		Demonstrate skills in leadership and team		ranging from 40 direct reports in the Military to mid-
		building	Proficient	level corporate management
				Conduct annual preformance reviews for subordinates,
T <sub>e</sub>				identify shortcomings in client programs, and receive
inc.		Give and receive constructive feedback	Proficient	both positive and negative feedback from clients.
al (	Entrepreneurial, Problem solving, Initiative, Decision Making			Member TRB standing committees on transportation
Soci				resiliency, protection of critical infrastructure and
		Create, discuss and deliver strategies for		transportation for national defense. Provide cleints with
		sustainability for all stakeholders (company,		continuity of operations planning, exercises, and after
		community and environment)	Expert	action reports.
		Able to make a decision on a complex		Recognized expert and consultant for evaluating and
		matter/scenario using multiple sources of		resolving complex or unfamiliar issues, both technical
		information	Proficient	and business strategies.
		programme:		
				Average proficiency and use in designing queries or
		SQL for database querying	Aware	custom reports for clients.
				Limited use of scripts for cybersecurity pen-testing. UoE
				modules in the MSc program have provide enhanced
ata Science)		Python Programming	Trained	skills via Codio exercises and module assignments.
		, ,		Can install add-ins and understand value of support for
		Java	Aware	other applications.
		Python	Trained	IBID
	IT and Digital,	noSQL		
G	a.i.a Digitalij			

Technical (D		Scripting Language (Python)	Trained	Limited use of scripts for cybersecurity pen-testing. UoE modules in the MSc program have provide enhanced skills via Codio exercises and module assignments.
		Statistical Language (R)	Trained	
		Gits - repository development and		Average prior to UoE program. Now proficient via
		maintenance	Proficient	course assignments and exercises
		Use of conferenceing technologies and		Long-term use of multiple systems for remote support
		Moodle (VLE)	Proficient	of clients
		Spreadsheets	Expert	Base job requirement for more than 30 years
		Effective use of e-library resources	Expert	Acquired via UoE
	Global Citizen,	Take into account other people's		Lots of formal training and occu[ational requirement.
Subject Application	Teamwork,	perspectives	Proficient	Enhanced by project team interactions at UoE.
	Leadership,	viewpoints	Proficient	IBID
	Emotional	Actively participate in a range of community		Regular participation both as private citizen and as
	Intelligence	activities as an informed citizen	Expert	client representative.
	Decision Making,			
	Initiative,			
	Emotional			Continual growth in this area over entire career. Further
	Intelligence, Ethical	Develop, articulate and clarify your personal		enhanced by the truly global perspective and cohort
	Awareness	values and ethics	Proficient	make-up of teams at UoE.